

MICROPROCESSOR COMPONENTS LIBRARY

Schematic Symbols

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MICROPROCESSOR COMPONENTS LIBRARY

SCHEMATIC SYMBOLS

This manual and the Microprocessor Library Symbol Diskettes comprise the P-CAD Microprocessor Symbol Library.

This manual includes information on how to use the library; general information about the library; component lists by sequence, function, and file; component plots; and component pin sequences.

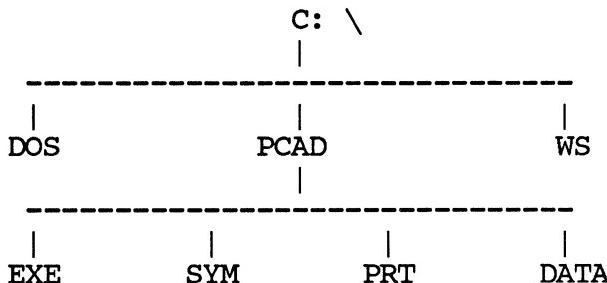
The library diskettes contain the component files, a layer structure file, and standard size sheet files.

HOW TO USE THIS LIBRARY

This section describes a recommended directory structure and steps in creating a design.

DIRECTORY STRUCTURE

In order to conserve space on your hard disk, and increase performance, it is recommended that you store library components within a directory structure. This structure should be tailored to your particular applications and design methodologies. The following example illustrates how this is done.



In this case symbols are stored in the SYM directory. Parts are stored in the PRT directory.

CREATING A DESIGN

To use the library in a design, start PC-CAPS or PC-CARDS. After the menu is displayed, load the correct layer structure. You can load the layer structure supplied with the library, or you can load one of the drawing sheets on the diskettes (A, B, C, D, or E size).

How to Use This Library

Then you can create the design by entering components, wires, text, instance, and net names.

For each PC-CAPS Symbol, there is a corresponding PC-CARDS Part. These are supplied on separate libraries. Both Symbols and Parts contain the electrical "intelligence" required for creating schematics, extracting data, and laying-out printed circuit boards.

Although P-CAD has gone to great effort to carefully verify the integrity of this information, P-CAD is not responsible for the usage of this library, or damages resulting from any technical inaccuracies. P-CAD may make improvements and/or changes in this product at any time and without prior notice.

This library has been developed at the request of our users, and we welcome any suggestions regarding improvements, or other libraries that are desired.

GENERAL INFORMATION

This section provides general information about various aspects of the P-CAD Microprocessor Library, including the layer structures, assignment of symbol attributes, and signal naming conventions.

SCHEMATIC LAYER STRUCTURE

The following layer structure, LAYS.SCH, is included on the Microprocessor Symbol Library diskettes. This LAYS.SCH is a version of the standard P-CAD layer structure that has been edited and used in creating the Microprocessor Library Symbols.

<u>LAYER</u>	<u>NAME</u>	<u>PEN #</u>	<u>STATUS</u>	<u>USE</u>
1	WIRES	1	OFF	Interconnecting wires
2	BUS	1	OFF	Interconnecting busses/wires
3	GATE	2	ON	Gate geometry/symbol
4	IEEE	2	OFF	Not used
5	PINFUN	3	OFF	Not used
6	PINNUM	1	ABL	Pin Numbers
7	PINNAM	6	ABL	Pin names
8	PINCON	1	ABL	Pin connections (dot)

General Information

<u>LAYER</u>	<u>NAME</u>	<u>PEN #</u>	<u>STATUS</u>	<u>USE</u>
9	REFDES	2	ABL	Reference Designator
10	ATTR	6	OFF	Not Used
11	SDOT	1	OFF	Not used
12	DEVICE	5	OFF	Device Name

PRINTED CIRCUIT BOARD LAYER STRUCTURE

The following layer structure, MULTI.PCB, is included on the Microprocessor Part Library diskettes. MULTI.PCB is a version of the standard P-CAD layer structure (LAYS.PCB) that has been edited and used in creating the Microprocessor Library Parts.

<u>LAYER</u>	<u>NAME</u>	<u>PEN #</u>	<u>STATUS</u>	<u>USE</u>
1	PADCOM	7	ON	Graphic Component Pads
2	FLCOMP	7	OFF	Flash Component Pads
3	PADSLD	8	OFF	Graphic Solder Pads
4	FLSOLD	8	OFF	Flash Solder Pads
5	PADINT	9	OFF	Graphic Internal Pads

General Information

<u>LAYER</u>	<u>NAME</u>	<u>PEN #</u>	<u>STATUS</u>	<u>USE</u>
6	FLINT	9	OFF	Flash Internal Pads
7	GNDCON	10	OFF	Graphic Internal Ground Connection
8	FLGCON	10	OFF	Flash Internal Ground Connection
9	CLEAR	12	OFF	Graphic Universal Clearance
10	FLCLER	12	OFF	Flash Universal Clearance
11	PWRCON	13	OFF	Graphic Internal Power Connections
12	FLPCON	13	OFF	Flash Internal Power connections
13	SLDMSK	14	OFF	Graphic Solder Mask Relief
14	FLSMSK	14	OFF	Flash Solder Mask
15	DRILL	15	OFF	Graphic Drill Template
16	FLDRLL	15	OFF	Flash Drill Template

General Information

<u>LAYER</u>	<u>NAME</u>	<u>PEN #</u>	<u>STATUS</u>	<u>USE</u>
17	PIN	4	ON	Pin Color
18	BRDOUT	4	ON	Board Outline
19	FILTARG	4	OFF	Flash Alignment Targets
20	SLKSCR	6	ON	Silkscreen Paint
21	DEVICE	5	ON	Device Names
22	ATTR	6	OFF	Attributes
23	REFDES	6	OFF	Reference Designators
24	COMP	1	ABL A	Component Traces
25	SOLDER	2	ABL	Solder Side Traces
26	INT1	3	OFF	Internal Traces

SIGNAL NAMING CONVENTIONS

The following signal naming conventions are used in the components library.

<u>Signal</u>	<u>Convention</u>
READY	RDY
CLOCK	CLK
RESET	RST and RES

General Information

INFORMATION ON COMPONENT PARTS

Library Component Parts are created with the pin types shown below. Special types 5 or 6 are used when pin 1 is used as power or ground.

<u>TYPE</u>	<u>FUNCTION</u>	<u>SHAPE</u>
1	PIN 1 I.D.	SQUARE
2	STD PIN I.D.	ROUND
3	STD. GROUND	ROUND
4	STD. POWER	ROUND
5	PIN 1 POWER	SQUARE
6	PIN 1 GROUND	SQUARE

INFORMATION ON SPECIAL PACKAGES

Special Quad packaged microprocessors i.e., 80186, 80188 and 80286 follow these conventions.

1. The symbols are shown in dip form.
2. The parts are shown as four sided.
3. The standard symbols and parts reflect the 68 Lead Ceramic Pin Grid Array Package Type CG.
4. The alternate symbols and parts "T" reflect the Textool 68 Lead Chip Carrier Socket.

COMPONENT LIST BY SEQUENCE

<u>NUMBER</u>	<u>SYMBOL PAGE#</u>	<u>SYMBOL DISK#</u>
2004	37	1
2114A	38	1
2115A	37	1
2115H	37	1
2125A	37	1
2125H	37	1
2148H	38	1
2149H	38	1
2164A	37	1
2186	37	1
2186A	37	1
2187A	37	1
27128	37	1
27128A	37	1
27256	37	1
2732A	38	1
2764	37	1
2764A	37	1
2816A	37	1
2817A	37	1
51C64	37	1
51C65	37	1
7220	38	1
7220-1	38	1
7220-4	38	1
7220-5	38	1
7224	38	1
80130	38	1
80130-2	38	1
80150	38	1
80150-2	38	1
80186	49	3

Component List by Sequence

<u>NUMBER</u>	<u>SYMBOL PAGE#</u>	<u>SYMBOL DISK#</u>
80188	49	3
80286	49	3
80287	39	1
80287-3	41	1
8031AH	39	1
8032AH	39	1
8035AHL	40	1
8039AHL	40	1
8040AHL	40	1
8041A	39	1
8042	40	1
8044AH	45	1
8048AH	40	1
8049AH	40	1
8050AH	40	1
8051AH	39	1
8052AH	39	1
8080A	41	1
8080A-1	41	1
8080A-2	41	1
8085A	41	2
8085A-2	41	2
8085AH	41	2
8085AH-1	41	2
8085AH-2	41	2
8086	41	2
8086-1	42	2
8086-2	42	2
8087	42	2
8088	42	2
8088-2	42	2
8089	42	2
80C39-7	41	1
80C49-7	41	1
8155	42	2

Component List by Sequence

<u>NUMBER</u>	<u>SYMBOL PAGE#</u>	<u>SYMBOL DISK#</u>
8155-2	43	2
8155H	42	2
8155H-2	42	2
8156	42	2
8156-2	43	2
8156H	42	2
8156H-2	42	2
8185	43	2
8185-2	43	2
8202A	43	2
8203	37	1
82C03	43	2
8205	43	2
82062	43	2
8208	43	2
8212	43	2
8216	43	2
8218	43	2
8219	43	2
8224	44	2
8226	43	2
8228	44	2
82284	44	2
82284-6	44	2
82285	44	2
82288	44	2
82288-6	44	2
8231A	44	2
8237A	44	2
8237A-4	44	2
8237A-5	44	2
8238	44	2
8243	44	2
82501	44	2
8251A	44	2
8253	45	2

Component List by Sequence

<u>NUMBER</u>	<u>SYMBOL PAGE#</u>	<u>SYMBOL DISK#</u>
82530	45	2
82530-6	45	2
8253-5	45	2
8254	45	2
8255A	45	2
8255A-5	45	2
8256AH	45	2
8257	45	2
8257-5	45	2
82586	46	3
8259A	46	3
8259A-2	46	3
8259A-8	46	3
8271	46	3
8271-6	46	3
82720	46	3
8272A	46	3
8273	46	3
8273-4	46	3
82731	47	3
8274	47	3
8275	47	3
8276	47	3
8279	47	3
8279-5	47	3
8282	47	3
8283	47	3
8284A	47	3
8284A-1	47	3
8286	47	3
8287	47	3
8288	47	3
8289	48	3
8289-1	48	3
8291A	48	3
8292	48	3

Component List by Sequence

<u>NUMBER</u>	<u>SYMBOL PAGE#</u>	<u>SYMBOL DISK#</u>
8293	48	3
8294A	48	3
8295	48	3
8344AH	45	2
8355	48	3
8355-2	48	3
8641A	39	1
8741A	40	1
8742	40	1
8744H	46	2
8748H	40	1
8749H	40	1
8751H	39	1
8751H-8	39	1
8751H-10	39	1
8751H-11	39	1
8755A	48	3
8755A-2	48	3

COMPONENT LIST BY FUNCTION

<u>Component</u>	<u>Description</u>
MCS-80/85 MICROPROCESSORS	
8080A	8-Bit N-channel Microprocessor
8080A-1	8-Bit N-channel Microprocessor
8080A-2	8-Bit N-channel Microprocessor
8085AH	8-Bit HMOS Microprocessor
8085AH-2	8-Bit HMOS Microprocessor
8085AH-1	8-Bit HMOS Microprocessor
8085A	Single Chip 8-Bit N-Channel Microprocessor
8085A-2	Single Chip 8-Bit N-Channel Microprocessor
8155H	2048-Bit Static HMOS RAM with I/O Ports and timer
8156H	2048-Bit Static HMOS RAM with I/O Ports and timer
8155H-2	2048-Bit Static HMOS RAM with I/O Ports and timer
8156H-2	2048-Bit Static HMOS RAM with I/O Ports and timer
8155	2048-Bit Static MOS RAM with I/O Ports and Timer
8156	2048-Bit Static MOS RAM with I/O Ports and Timer
8155-2	2048-Bit Static MOS RAM with I/O Ports and Timer
8156-2	2048-Bit Static MOS RAM with I/O Ports and Timer
8185	1024 X 8-Bit Static RAM for MCS-85
8185-2	1024 X 8-Bit Static RAM for MCS-85
8205	High Speed 1 Out of 8 Binary Decoder
8212	8-Bit Input/Output Port

Component List by Function

<u>Component</u>	<u>Description</u>
8216	4-Bit Parallel Bidirectional Bus Driver
8226	4-Bit Parallel Bidirectional Bus Driver
8218	Bipolar Microcomputer Bus Controller for MCS-80 & MCS-85 Family
8219	Bipolar Microcomputer Bus Controller for MCS-80 & MCS-85 Family
8224	Clock Generator and Driver for 8080A CPU
8228	System Controller and Bus Driver for 8080A CPU
8238	System Controller and Bus Driver for 8080A CPU
8237A	High Performance Programmable Interrupt Controller
8237A-4	High Performance Programmable Interrupt Controller
8237A-5	High Performance Programmable Interrupt Controller
8257	Programmable DMA Controller
8257-5	Programmable DMA Controller
8259A	Programmable Interrupt Controller
8259A-2	Programmable Interrupt Controller
8259A-8	Programmable Interrupt Controller
8355	16,384-Bit ROM with I/O
8355-2	16,384-Bit ROM with I/O
8755A	16,384-Bit EPROM with I/O
8755A-2	16,384-Bit EPROM with I/O

Component List by Function

<u>Component</u>	<u>Description</u>
iAPX 86, 88, 186, 188 MICROPROCESSORS	
8086	16-Bit HMOS Microprocessor
8086-1	16-Bit HMOS Microprocessor
8086-2	16-Bit HMOS Microprocessor
80186	High Integration 16-Bit Microprocessor
8088	8-Bit HMOS Microprocessor
8088-2	8-Bit HMOS Microprocessor
80188	High Integration 8-Bit Microprocessor
8089	8 & 16-Bit HMOS I/O Processor
8087	Numeric Data Coprocessor
80130	iRMX 86 Operating System Processor
80130-2	iRMX 86 Operating System Processor
80150	CP/M-86 Operating System Processors
80150-2	CP/M-86 Operating System Processors
8282	Octal Latch
8283	Octal Latch
8284A	Clock Generator and Driver for iAPX 86, 88 Processors
8284A-1	Clock Generator and Driver for iAPX 86, 88 Processors
8286	Octal Bus Transceiver
8287	Octal Bus Transceiver
8288	Bus Controller for iAPX 86, 88 Processors
8289	Bus Arbiter
8289-1	Bus Arbiter

Component List by Function

<u>Component</u>	<u>Description</u>
iAPX 286 MICROPROCESSORS	
80286	High Performance Microprocessor with Memory Management and Protection
80287	80-Bit HMOS Numeric Processor Extension
80287-3	80-Bit HMOS Numeric Processor Extension
82284	Clock Generator and Ready Interface for iAPX 286 Processor
82284-6	Clock Generator and Ready Interface for iAPX 286 Processor
82288	Bus Controller for iAPX 286 Processors
82288-6	Bus Controller for iAPX 286 Processors
MEMORY CONTROLLERS	
8202A	Dynamic RAM Controller
8203	64K Dynamic Ram Controller
82C03	CMOS 64K Dynamic Ram Controller
8208	Dynamic RAM Controller
SUPPORT PERIPHERALS	
8231A	Arithmetic Processing Unit
8253	Programmable Interval Timer
8253-5	Programmable Interval Timer
8254	Programmable Interval Timer
8255A	Programmable Peripheral Interface
8255A-5	Programmable Peripheral Interface

Component List by Function

<u>Component</u>	<u>Description</u>
8256AH	Multifunctional Universal Asynchronous Receiver Transmitter (UART)
8279	Programmable Keyboard/Display Interface
8279-5	Programmable Keyboard/Display Interface
82285	Clock Generator and Ready Interface for I/O Coprocessors

FLOPPY DISK CONTROLLERS

8271	Programmable Floppy Disk Controller
8271-6	Programmable Floppy Disk Controller
8272A	Single/Double Density Floppy Disk Controller

HARD DISK CONTROLLERS

82062	Winchester Disk Controller
8041A	Universal Peripheral Interface 8-Bit Microcomputer
8641A	Universal Peripheral Interface 8-Bit Microcomputer
8741A	Universal Peripheral Interface 8-Bit Microcomputer
8042	Universal Peripheral Interface 8-Bit Microcomputer
8742	Universal Peripheral Interface 8-Bit Microcomputer
8243	MCS-48 Input/Output Expander
8295	Dot Matrix Print Controller

Component List by Function

Component Description

GLOBAL COMMUNICATIONS

8251A	Programmable Communication Interface
8273	Programmable HDLC/SDLC Protocol Controller
8273-4	Programmable HDLC/SDLC Protocol Controller
8274	Multi-Protocol Serial Controller (MPSC)
82530	Serial Communications Controller (SCC)
82530-6	Serial Communications Controller (SCC)

LOCAL AREA NETWORKS

82501	Ethernet Serial Interface
82586	Local Area Network Coprocessor

OTHER DATA COMMUNICATIONS

8291A	GPIB Talker/Listener
8292	GPIB Controller
8293	GPIB Transceiver
8294A	Data Incription Unit

ALPHANUMERIC TERMINAL CONTROLLERS

8275	Programmable CRT Controller
8276	Small System CRT Controller

GRAPHIC DISPLAY PRODUCTS

82720	Graphic Display Controller
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Component List by Function

<u>Component</u>	<u>Description</u>
TEXT PROCESSING PRODUCTS	
82731	Video Interface Controller
RAMs (Random Access Memories)	
2114A	1024 x 4-Bit Static Ram
2115A	High Speed 1K x 1-Bit Static RAM
2125A	High Speed 1K x 1-Bit Static RAM
2115H	High Speed 1K x 1-Bit Static RAM
2125A	High Speed 1K x 1-Bit Static RAM
2148H	1024 x 4-Bit Static RAM
2149H	1024 x 4-Bit Static RAM
2164A	65,536 x 1-Bit Dynamic RAM
2186A	8192 x 8 Bit Integrated RAM
2186	8192 x 8 Bit Integrated RAM
2187A	8192 x 8 Bit Integrated RAM
51C64	65,536 x 1-Bit CHMOS Dynamic RAM
51C65	Static Column CHMOS Dynamic RAM
EPROMS (Erasable Programmable Read Only Memories)	
2732A	32K (4K x 8 VU Erasable PROM)
2764	64K (8K x 8 VU Erasable PROM)
2764A	Advanced 64K (8K x 8 VU Erasable PROM)
27128	128K (16K x 8 VU Erasable PROM)
27128A	Advanced 128K (16K x 8 VU Erasable PROM)
27256	256K (32K x 8 VU Erasable PROM)

Component List by Function

<u>Component</u>	<u>Description</u>
E2PROMS & NVRAMS (In-circuit Programmable Writable Memories)	
2004	4K (512 x 8) Non-volatile Random Access Memory
2816A	16K (2K x 8) Electrically Erasable EPROM
2817A	16K (2K x 8) Electrically Erasable EPROM
BUBBLE MEMORY	
7220	Controller for 1MBit BPK 70A Bubble Memory Subsystem
7220-1	Controller for 1MBit BPK 70A Bubble Memory Subsystem
7220-4	Controller for 1MBit BPK 70A Bubble Memory Subsystem
7220-5	Controller for 1MBit BPK 70A Bubble Memory Subsystem
7224	Controller for 4MBit
MCS-51	
8031AH	Single-Component 8-Bit Microcomputer
8051AH	Single-Component 8-Bit Microcomputer
8032AH	Single-Component 8-Bit Microcomputer
8052AH	Single-Component 8-Bit Microcomputer
8751H	Single-Component 8-Bit Microcomputer
8751H-11	Single-Component 8-Bit Microcomputer
8751H-10	Single-Component 8-Bit Microcomputer

Component List by Function

<u>Component</u>	<u>Description</u>
8751H-8	Single-Component 8-Bit Micro
MCS-48	
8048AH	HMOS Single-Component 8-Bit Microcomputer
8748H	HMOS Single-Component 8-Bit Microcomputer
8035AHL	HMOS Single-Component 8-Bit Microcomputer
8049AH	HMOS Single-Component 8-Bit Microcomputer
8749H	HMOS Single-Component 8-Bit Microcomputer
8039AHL	HMOS Single-Component 8-Bit Microcomputer
8050AH	HMOS Single-Component 8-Bit Microcomputer
8040AHL	HMOS Single-Component 8-Bit Microcomputer

MC3-48 Express

80C49-7	CHMOS Single-Component 8-Bit Microcomputer
80C39-7	CHMOS Single-Component 8-Bit Microcomputer

RUPI

8044AH	High Performance 8-Bit Microcontroller with On-Chip Serial Communication Center
8344AH	High Performance 8-Bit Microcontroller with On-Chip Serial Communication Center
8744H	High Perf 8-Bit Microcontroller with On-Chip Serial Comm Center

FILE LIST BY COMPONENT FUNCTION

8-BIT N-CHANNEL MICROPROCESSOR

PC-CAPS SYMBOL: 8080A.SYM, 8080A-1.SYM,

8080A-2.SYM

PC-CARDS PART : 8080A.PRT, 8080A-1.PRT,

8080A-2.PRT

PIN CONFIGURATION: DIP40

8-BIT HMOS MICROPROCESSORS

PC-CAPS SYMBOL: 8085AH.SYM, 8085AH-1.SYM,

8085AH-2.SYM

PC-CARDS PART : 8085AH.PRT, 8085AH-1.PRT,

8085AH-2.PRT

PIN CONFIGURATION: DIP40

SINGLE CHIP 8-BIT N-CHANNEL MICROPROCESSORS

PC-CAPS SYMBOL: 8085A.SYM, 8085A-2.SYM

PC-CARDS PART : 8085A.PRT, 8085A-2.PRT

PIN CONFIGURATION: DIP40

2048-BIT STATIC HMOS RAM WITH I/O PORTS AND TIMER

PC-CAPS SYMBOL: 8155H.SYM, 8155H-2.SYM,

8156H.SYM, 8156H-2.SYM

PC-CARDS PART : 8155H.PRT, 8155H-2.PRT,

8156H.PRT, 8156H-2.PRT

PIN CONFIGURATION: DIP40

2048-BIT STATIC MOS RAM WITH I/O PORTS AND TIMER

PC-CAPS SYMBOL: 8155.SYM, 8155-2.SYM,

8156.SYM, 8156-2.SYM

PC-CARDS PART : 8155.PRT, 8155-2.PRT,

8156.PRT, 8156-2.PRT

PIN CONFIGURATION: DIP40

File List by Component Function

1024 X 8-BIT STATIC RAM
PC-CAPS SYMBOL: 8185.SYM, 8185-2.SYM
PC-CARDS PART : 8185.PRT, 8185-2.PRT
PIN CONFIGURATION: DIP18

HIGH SPEED 1 OUT OF 8 BINARY DECODER
PC-CAPS SYMBOL: 8205.SYM
PC-CARDS PART : 8205.PRT
PIN CONFIGURATION: DIP16

8-BIT INPUT/OUTPUT PORT
PC-CAPS SYMBOL: 8212.SYM
PC-CARDS PART : 8212.PRT
PIN CONFIGURATION: DIP24

4-BIT PARALLEL BIDIRECTIONAL BUS DRIVER
PC-CAPS SYMBOL: 8226.SYM
PC-CARDS PART : 8226.PRT
PIN CONFIGURATION: DIP16

4-BIT PARALLEL BIDIRECTIONAL BUS DRIVER
PC-CAPS SYMBOL: 8216.SYM
PC-CARDS PART : 8216.PRT
PIN CONFIGURATION: DIP16

BIPOLAR MICROCOMPUTER BUS CONTROLLER
PC-CAPS SYMBOL: 8218.SYM
PC-CARDS PART : 8218.PRT
PIN CONFIGURATION: DIP28

BIPOLAR MICROCOMPUTER BUS CONTROLLER
PC-CAPS SYMBOL: 8219.SYM
PC-CARDS PART : 8219.PRT
PIN CONFIGURATION: DIP28

CLOCK GENERATOR AND DRIVER
PC-CAPS SYMBOL: 8224.SYM
PC-CARDS PART : 8224.PRT
PIN CONFIGURATION: DIP16

File List by Component Function

SYSTEM CONTROLLER AND BUS DRIVER

PC-CAPS SYMBOL: 8228.SYM, 8238.SYM

PC-CARDS PART : 8228.PRT, 8238.PRT

PIN CONFIGURATION: DIP28

HIGH PERFORMANCE PROGRAMMABLE DMA CONTROLLER

PC-CAPS SYMBOL: 8237A.SYM, 8237A-4.SYM,

8237A-5.SYM

PC-CARDS PART : 8237A.PRT, 8237A-4.PRT,
8237A-5.PRT

PIN CONFIGURATION: DIP40

PROGRAMMABLE DMA CONTROLLER

PC-CAPS SYMBOL: 8257.SYM, 8257-5.SYM

PC-CARDS PART : 8257.PRT, 8257-5.PRT

PIN CONFIGURATION: DIP40

PROGRAMMABLE INTERRUPT CONTROLLER

PC-CAPS SYMBOL: 8259A.SYM, 8259A-2.SYM,
8259A-8.SYM

PC-CARDS PART : 8259A.PRT, 8259A-2.PRT,
8259A-8.PRT

PIN CONFIGURATION: DIP28

16,384-BIT ROM WITH I/O

PC-CAPS SYMBOL: 8355.SYM, 8355-2.SYM

PC-CARDS PART : 8355.PRT, 8355-2.PRT

PIN CONFIGURATION: DIP40

16,384-BIT EPROM WITH I/O

PC-CAPS SYMBOL: 8755A.SYM, 8755A-2.SYM

PC-CARDS PART : 8755A.PRT, 8755A-2.PRT

PIN CONFIGURATION: DIP40

16-BIT HMOS MICROPROCESSOR

PC-CAPS SYMBOL: 8086.SYM, 8086-1.SYM,
8086-2.SYM

PC-CARDS PART : 8086.PRT, 8086-1.PRT,
8086-2.PRT

PIN CONFIGURATION: DIP40

File List by Component Function

8 & 16-BIT HMOS I/O PROCESSOR

PC-CAPS SYMBOL: 8089.SYM

PC-CARDS PART : 8089.PRT

PIN CONFIGURATION: DIP40

8-BIT HMOS MICROPROCESSOR

PC-CAPS SYMBOL: 8088.SYM, 8088-2.SYM

PC-CARDS PART : 8088.PRT, 8088-2.PRT

PIN CONFIGURATION: DIP40

NUMERIC DATA COPROCESSOR

PC-CAPS SYMBOL: 8087.SYM

PC-CARDS PART : 8087.PRT

PIN CONFIGURATION: DIP40

iRMX 86 OPERATING SYSTEM PROCESSORS

PC-CAPS SYMBOL: 80130.SYM, 80130-2.SYM

PC-CARDS PART : 80130.PRT, 80130-2.PRT

PIN CONFIGURATION: DIP40

CP/M-86 OPERATING SYSTEM PROCESSORS

PC-CAPS SYMBOL: 80150.SYM, 80150-2.SYM

PC-CARDS PART : 80150.PRT, 80150-2.PRT

PIN CONFIGURATION: DIP40

OCTAL LATCH

PC-CAPS SYMBOL: 8282.SYM

PC-CARDS PART : 8282.PRT

PIN CONFIGURATION: DIP20

OCTAL LATCH

PC-CAPS SYMBOL: 8283.SYM

PC-CARDS PART : 8283.PRT

PIN CONFIGURATION: DIP20

CLOCK GENERATOR AND DRIVER

PC-CAPS SYMBOL: 8284A.SYM, 8284A-1.SYM

PC-CARDS PART : 8284A.PRT, 8284A-1.PRT

PIN CONFIGURATION: DIP18

File List by Component Function

OCTAL BUS TRANSCEIVER
PC-CAPS SYMBOL: 8286.SYM
PC-CARDS PART : 8286.PRT
PIN CONFIGURATION: DIP20

OCTAL BUS TRANSCEIVER
PC-CAPS SYMBOL: 8287.SYM
PC-CARDS PART : 8287.PRT
PIN CONFIGURATION: DIP20

BUS CONTROLLER
PC-CAPS SYMBOL: 8288.SYM
PC-CARDS PART : 8288.PRT
PIN CONFIGURATION: DIP20

BUS ARBITER
PC-CAPS SYMBOL: 8289.SYM, 8289-1.SYM
PC-CARDS PART : 8289.PRT, 8289-1.PRT
PIN CONFIGURATION: DIP20

80-BIT HMOS NUMERIC PROCESSOR EXTENSION
PC-CAPS SYMBOL: 80287.SYM, 80287-3.SYM
PC-CARDS PART : 80287.PRT, 80287-3.PRT
PIN CONFIGURATION: DIP40

CLOCK GENERATOR AND READY INTERFACE
PC-CAPS SYMBOL: 82284.SYM, 82284-6.SYM
PC-CARDS PART : 82284.PRT, 82284-6.PRT
PIN CONFIGURATION: DIP18

BUS CONTROLLER
PC-CAPS SYMBOL: 82288.SYM, 82288-6.SYM
PC-CARDS PART : 82288.PRT, 82288-6.PRT
PIN CONFIGURATION: DIP20

DYNAMIC RAM CONTROLLER
PC-CAPS SYMBOL: 8202A.SYM
PC-CARDS PART : 8202A.PRT
PIN CONFIGURATION: DIP40

File List by Component Function

64K DYNAMIC RAM CONTROLLER
PC-CAPS SYMBOL: 8203.SYM
PC-CARDS PART : 8203.PRT
PIN CONFIGURATION: DIP40

CMOS 64K DYNAMIC RAM CONTROLLER
PC-CAPS SYMBOL: 82C03.SYM
PC-CARDS PART : 82C03.PRT
PIN CONFIGURATION: DIP40

DYNAMIC RAM CONTROLLER
PC-CAPS SYMBOL: 8208.SYM
PC-CARDS PART : 8208.PRT
PIN CONFIGURATION: DIP48

ARITHMETIC PROCESSING UNIT
PC-CAPS SYMBOL: 8231A.SYM
PC-CARDS PART : 8231A.PRT
PIN CONFIGURATION: DIP24

PROGRAMMABLE INTERVAL TIMER
PC-CAPS SYMBOL: 8253.SYM, 8253-5.SYM,
 8254.SYM
PC-CARDS PART : 8253.PRT, 8253-5.PRT,
 8254.PRT
PIN CONFIGURATION: DIP24

PROGRAMMABLE PERIPHERAL INTERFACE
PC-CAPS SYMBOL: 8255A.SYM, 8255A-5.SYM
PC-CARDS PART : 8255A.PRT, 8255A-5.PRT
PIN CONFIGURATION: DIP40

MULTIFUNCTION UNIVERSAL ASYNCHRONOUS
RECEIVER-TRANSMITTER (UART)
PC-CAPS SYMBOL: 8256AH.SYM
PC-CARDS PART : 8256AH.PRT
PIN CONFIGURATION: DIP40

File List by Component Function

PROGRAMMABLE KEYBOARD/DISPLAY INTERFACE

PC-CAPS SYMBOL: 8279.SYM, 8279-5.SYM

PC-CARDS PART : 8279.PRT, 8279-5.PRT

PIN CONFIGURATION: DIP40

CLOCK GENERATOR AND READY INTERFACE FOR I/O
COPROCESSORS

PC-CAPS SYMBOL: 82285.SYM

PC-CARDS PART : 82285.PRT

PIN CONFIGURATION: DIP18

PROGRAMMABLE FLOPPY DISK CONTROLLER

PC-CAPS SYMBOL: 8271.SYM, 8271-6.SYM

PC-CARDS PART : 8271.PRT, 8271-6.PRT

PIN CONFIGURATION: DIP40

SINGLE/DOUBLE DENSITY FLOPPY DISK CONTROLLER

PC-CAPS SYMBOL: 8272A.SYM

PC-CARDS PART : 8272A.PRT

PIN CONFIGURATION: DIP40

WINCHESTER DISK CONTROLLER

PC-CAPS SYMBOL: 82062.SYM

PC-CARDS PART : 82062.PRT

PIN CONFIGURATION: DIP40

UNIVERSAL PERIPHERAL INTERFACE 8-BIT

MICROCOMPUTER

PC-CAPS SYMBOL: 8041A.SYM, 8641A.SYM,

8741A.SYM, 8042.SYM,

8742.SYM

PC-CARDS PART : 8041A.PRT, 8641A.PRT,

8741A.PRT, 8042.PRT,

8742.PRT

PIN CONFIGURATION: DIP40

INPUT/OUTPUT EXPANDER

PC-CAPS SYMBOL: 8243.SYM

PC-CARDS PART : 8243.PRT

PIN CONFIGURATION: DIP24

File List by Component Function

DOT MATRIX PRINTER CONTROLLER
PC-CAPS SYMBOL: 8295.SYM
PC-CARDS PART : 8295.PRT
PIN CONFIGURATION: DIP40

PROGRAMMABLE COMMUNICATION INTERFACE
PC-CAPS SYMBOL: 8251A.SYM
PC-CARDS PART : 8251A.PRT
PIN CONFIGURATION: DIP28

PROGRAMMABLE HDLC/SDLC PROTOCOL CONTROLLER
PC-CAPS SYMBOL: 8273.SYM, 8273-4.SYM
PC-CARDS PART : 8273.PRT, 8273-4.PRT
PIN CONFIGURATION: DIP40

MULTI-PROTOCOL SERIAL CONTROLLER (MPSC)
PC-CAPS SYMBOL: 8274.SYM
PC-CARDS PART : 8274.PRT
PIN CONFIGURATION: DIP40

SERIAL COMMUNICATIONS CONTROLLER (SCC)
PC-CAPS SYMBOL: 82530.SYM, 82530-6.SYM
PC-CARDS PART : 82530.PRT, 82530-6.PRT
PIN CONFIGURATION: DIP40

ETHERNET SERIAL INTERFACE
PC-CAPS SYMBOL: 82501.SYM
PC-CARDS PART : 82501.PRT
PIN CONFIGURATION: DIP20

LOCAL AREA NETWORK COPROCESSOR
PC-CAPS SYMBOL: 82586.SYM
PC-CARDS PART : 82586.PRT
PIN CONFIGURATION: DIP48

GPIB TALKER/LISTENER
PC-CAPS SYMBOL: 8291A.SYM
PC-CARDS PART : 8291A.PRT
PIN CONFIGURATION: DIP40

File List by Component Function

GPIB CONTROLLER

PC-CAPS SYMBOL: 8292.SYM

PC-CARDS PART : 8292.PRT

PIN CONFIGURATION: DIP40

GPIB TRANSCEIVER

PC-CAPS SYMBOL: 8293.SYM

PC-CARDS PART : 8293.PRT

PIN CONFIGURATION: DIP28

DATA ENCRYPTION UNIT

PC-CAPS SYMBOL: 8294A.SYM

PC-CARDS PART : 8294A.PRT

PIN CONFIGURATION: DIP40

PROGRAMMABLE CRT CONTROLLER

PC-CAPS SYMBOL: 8275.SYM

PC-CARDS PART : 8275.PRT

PIN CONFIGURATION: DIP40

SMALL SYSTEM CRT CONTROLLER

PC-CAPS SYMBOL: 8276.SYM

PC-CARDS PART : 8276.PRT

PIN CONFIGURATION: DIP40

GRAPHICS DISPLAY CONTROLLER

PC-CAPS SYMBOL: 82720.SYM

PC-CARDS PART : 82720.PRT

PIN CONFIGURATION: DIP40

VIDEO INTERFACE CONTROLLER

PC-CAPS SYMBOL: 82731.SYM

PC-CARDS PART : 82731.PRT

PIN CONFIGURATION: DIP40

SINGLE-COMPONENT 8-BIT MICROCOMPUTER

PC-CAPS SYMBOL: 8031AH.SYM, 8051AH.SYM

PC-CARDS PART : 8031AH.PRT, 8051AH.PRT

PIN CONFIGURATION: DIP40

File List by Component Function

SINGLE-COMPONENT 8-BIT MICROCOMPUTER
PC-CAPS SYMBOL: 8032AH.SYM, 8052AH.SYM
PC-CARDS PART : 8032AH.PRT, 8052AH.PRT
PIN CONFIGURATION: DIP40

SINGLE-COMPONENT 8-BIT MICROCOMPUTERS
PC-CAPS SYMBOL: 8751H.SYM, 8751H-11.SYM,
8751H-10.SYM, 8751H-8.SYM
PC-CARDS PART : 8751H.PRT, 8751H-11.PRT,
8751H-10.PRT, 8751H-8.PRT
PIN CONFIGURATION: DIP40

HIGH PERFORMANCE 8-BIT MICROCONTROLLER WITH
ON-CHIP SERIAL COMMUNICATION CENTER
PC-CAPS SYMBOL: 8044AH.SYM, 8344AH.SYM,
8744H.SYM
PC-CARDS PART : 8044AH.SYM, 8344AH.SYM,
8744H.SYM
PIN CONFIGURATION: DIP40

HMOS SINGLE-COMPONENT 8-BIT MICROCOMPUTER
PC-CAPS SYMBOL: 8048AH.SYM, 8748H.SYM,
8035AHL.SYM, 8049AH.SYM
8749H.SYM, 8039AHL.SYM,
8050AH.SYM, 8040AHL.SYM
PC-CARDS PART : 8048AH.PRT, 8748H.PRT,
8035AHL.PRT, 8049AH.PRT
8749H.PRT, 8039AHL.PRT,
8050AH.PRT, 8040AHL.PRT
PIN CONFIGURATION: DIP40

CHMOS SINGLE-COMPONENT 8-BIT MICROCOMPUTER
PC-CAPS SYMBOL: 80C49-7.SYM, 80C39-7.SYM
PC-CARDS PART : 80C49-7.PRT, 80C39-7.PRT
PIN CONFIGURATION: DIP40

16K (2K X 8) ELECTRICALLY ERASABLE PROM
PC-CAPS SYMBOL: 2816A.SYM
PC-CARDS PART : 2816A.PRT
PIN CONFIGURATION: DIP24

File List by Component Function

16K (2K X 8) ELECTRICALLY ERASABLE PROM
PC-CAPS SYMBOL: 2817A.SYM
PC-CARDS PART : 2817A.PRT
PIN CONFIGURATION: DIP28

CONTROLLER FOR 1MBIT BPK 70A BUBBLE MEMORY
SUBSYSTEM
PC-CAPS SYMBOL: 7220.SYM, 7220-1.SYM,
7220-4.SYM, 7220-5.SYM
PC-CARDS PART : 7220.PRT, 7220-1.PRT,
7220-4.PRT, 7220-5.PRT
PIN CONFIGURATION: DIP40

CONTROLLER FOR 4MBIT BPK 5V74 BUBBLE MEMORY
SUBSYSTEM
PC-CAPS SYMBOL: 7224.SYM
PC-CARDS PART : 7224.PRT
PIN CONFIGURATION: DIP40

32K (4K X 8) UV ERASABLE PROM
PC-CAPS SYMBOL: 2732A.SYM
PC-CARDS PART : 2732A.PRT
PIN CONFIGURATION: DIP24

1024 X 4 BIT STATIC RAM
PC-CAPS SYMBOL: 2114A.SYM, 2148H.SYM,
2149H.SYM
PC-CARDS PART : 2114A.PRT, 2148H.PRT,
2149H.PRT
PIN CONFIGURATION: DIP18

HIGH SPEED 1K X 1 BIT STATIC RAM
PC-CAPS SYMBOL: 2115A.SYM, 2125A.SYM
PC-CARDS PART : 2115A.PRT, 2125A.PRT
PIN CONFIGURATION: DIP16

HMOS HIGH SPEED 1K X 1 BIT STATIC RAM
PC-CAPS SYMBOL: 2115H.SYM, 2125H.SYM
PC-CARDS PART : 2115H.PRT, 2125H.PRT
PIN CONFIGURATION: DIP16

File List by Component Function

4K (512 X 8) NON-VOLATILE RANDOM ACCESS
MEMORY

PC-CAPS SYMBOL: 2004.SYM

PC-CARDS PART : 2004.PRT

PIN CONFIGURATION: DIP28

64K (8K X 8) UV ERASABLE PROM

PC-CAPS SYMBOL: 2764.SYM

PC-CARDS PART : 2764.PRT

PIN CONFIGURATION: DIP28

ADVANCED 64K (8K X 8) UV ERASABLE PROM

PC-CAPS SYMBOL: 2764A.SYM

PC-CARDS PART : 2764A.PRT

PIN CONFIGURATION: DIP28

128K (16K X 8) UV ERASABLE PROM

PC-CAPS SYMBOL: 27128.SYM

PC-CARDS PART : 27128.PRT

PIN CONFIGURATION: DIP28

ADVANCED 128K (16K X 8) UV ERASABLE PROM

PC-CAPS SYMBOL: 27128A.SYM

PC-CARDS PART : 27128A.PRT

PIN CONFIGURATION: DIP28

65,536 X 1 BIT DYNAMIC RAM

PC-CAPS SYMBOL: 2164A.SYM

PC-CARDS PART : 2164A.PRT

PIN CONFIGURATION: DIP16

65,536 X 1 BIT CHMOS DYNAMIC RAM

PC-CAPS SYMBOL: 51C64.SYM

PC-CARDS PART : 51C64.PRT

PIN CONFIGURATION: DIP16

STATIC COLUMN CHMOS DYNAMIC RAM

PC-CAPS SYMBOL: 51C65.SYM

PC-CARDS PART : 51C65.PRT

PIN CONFIGURATION: DIP16

File List by Component Function

256K (32K X 8) UV ERASABLE PROM
PC-CAPS SYMBOL: 27256.SYM
PC-CARDS PART : 27256.PRT
PIN CONFIGURATION: DIP28

8192 X 8 BIT INTEGRATED RAM
PC-CAPS SYMBOL: 2186A.SYM, 2186.SYM
PC-CARDS PART : 2186A.PRT, 2186.PRT
PIN CONFIGURATION: DIP28

8192 X 8 BIT INTEGRATED RAM
PC-CAPS SYMBOL: 2187A.SYM
PC-CARDS PART : 2187A.PRT
PIN CONFIGURATION: DIP28

iAPX 186 HIGH INTEGRATED 16-BIT
MICROPROCESSOR
PC-CAPS SYMBOL: 80186.SYM
PC-CARDS PART : 80186.PRT
PIN CONFIGURATION: QUAD68

iAPX 188 HIGH INTEGRATED 8-BIT MICROPROCESSOR
PC-CAPS SYMBOL: 80188.SYM
PC-CARDS PART : 80188.PRT
PIN CONFIGURATION: QUAD68

iAPX 286/10 HIGH PERFORMANCE MICROPROCESSOR
WITH MEMORY MANAGEMENT AND PROTECTION
PC-CAPS SYMBOL: 80286.SYM
PC-CARDS PART : 80286.PRT
PIN CONFIGURATION: QUAD68

iAPX 186 HIGH INTEGRATED 16-BIT
MICROPROCESSOR
PC-CAPS SYMBOL: 80186T.SYM
PC-CARDS PART : 80186T.PRT
PIN CONFIGURATION: QUAD68

File List by Component Function

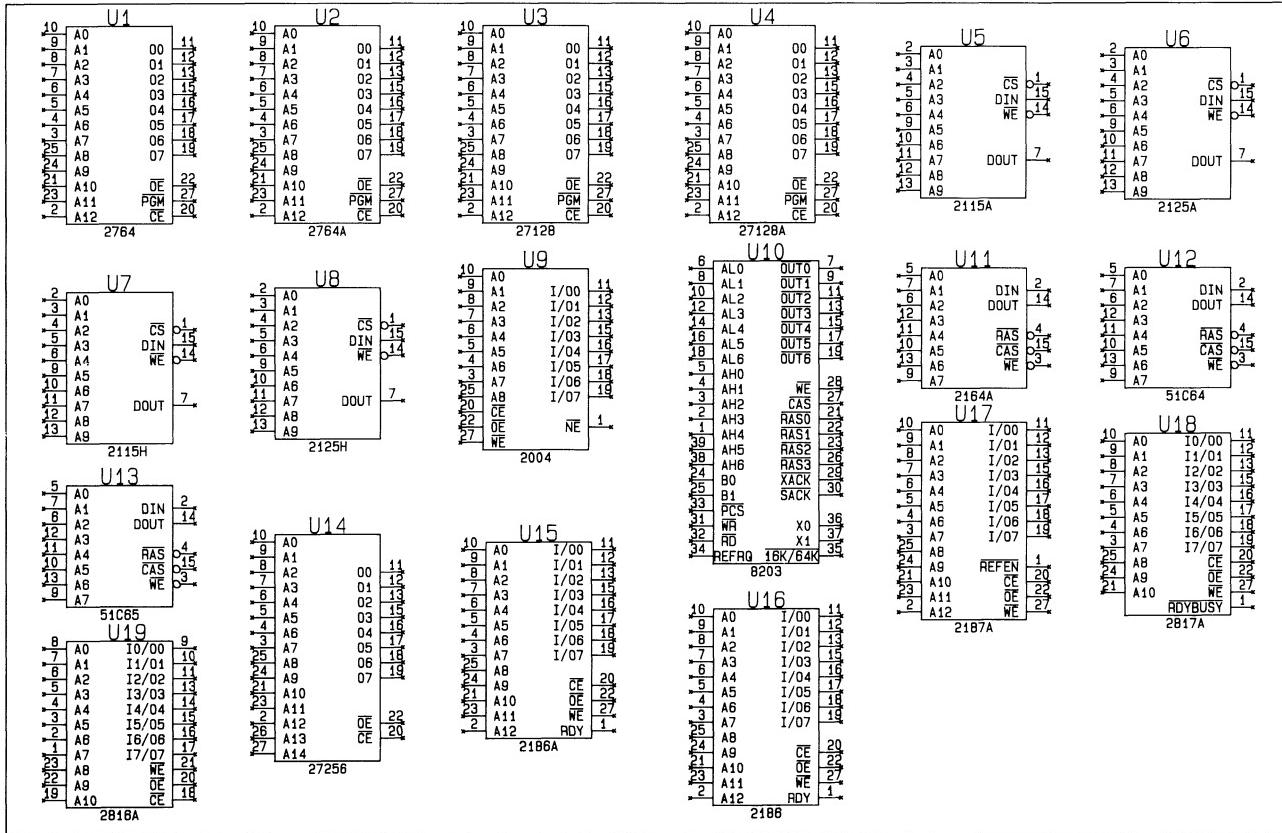
iAPX 188 HIGH INTEGRATED 8-BIT MICROPROCESSOR
PC-CAPS SYMBOL: 80188T.SYM
PC-CARDS PART : 80188T.PRT
PIN CONFIGURATION: QUAD68

iAPX 286/10 HIGH PERFORMANCE MICROPROCESSOR
WITH MEMORY MANAGEMENT AND PROTECTION
PC-CAPS SYMBOL: 80286T.SYM
PC-CARDS PART : 80286T.PRT
PIN CONFIGURATION: QUAD68

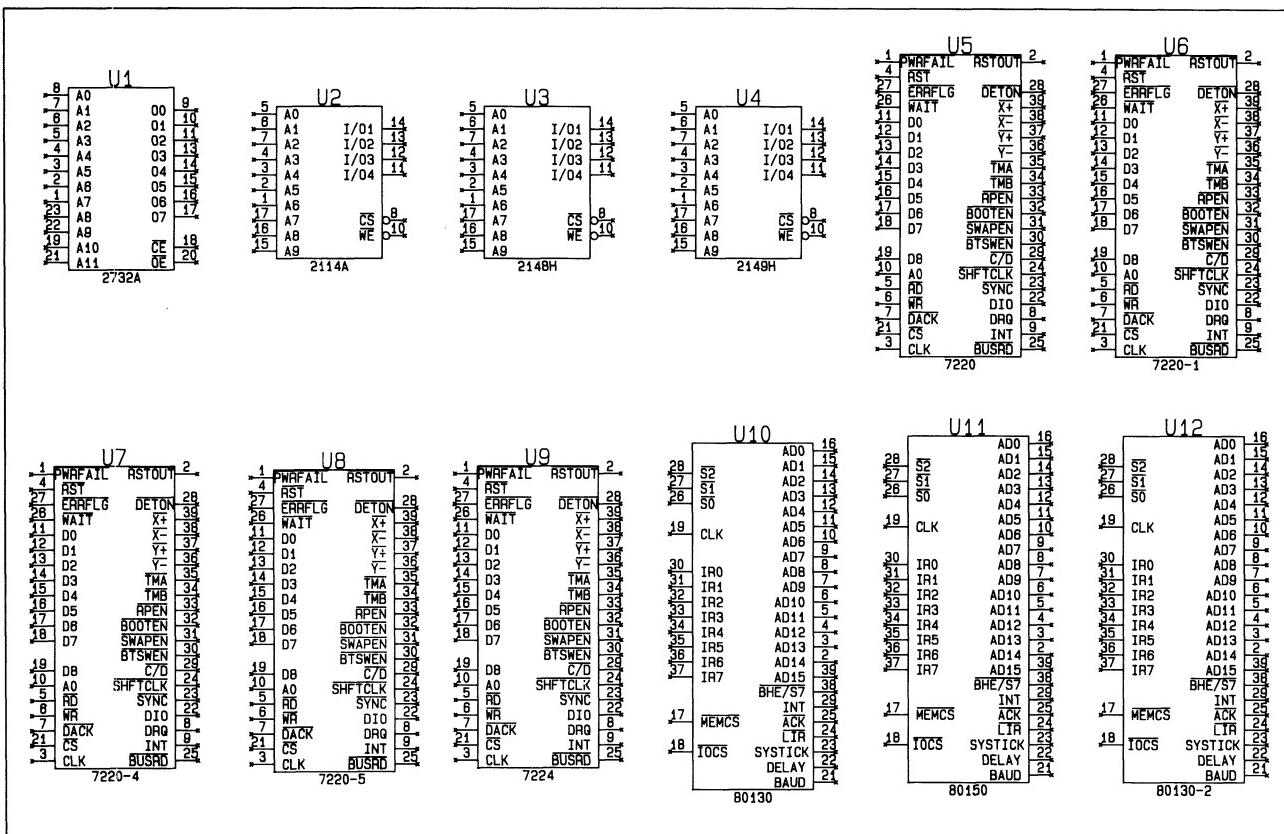
COMPONENT PLOTS

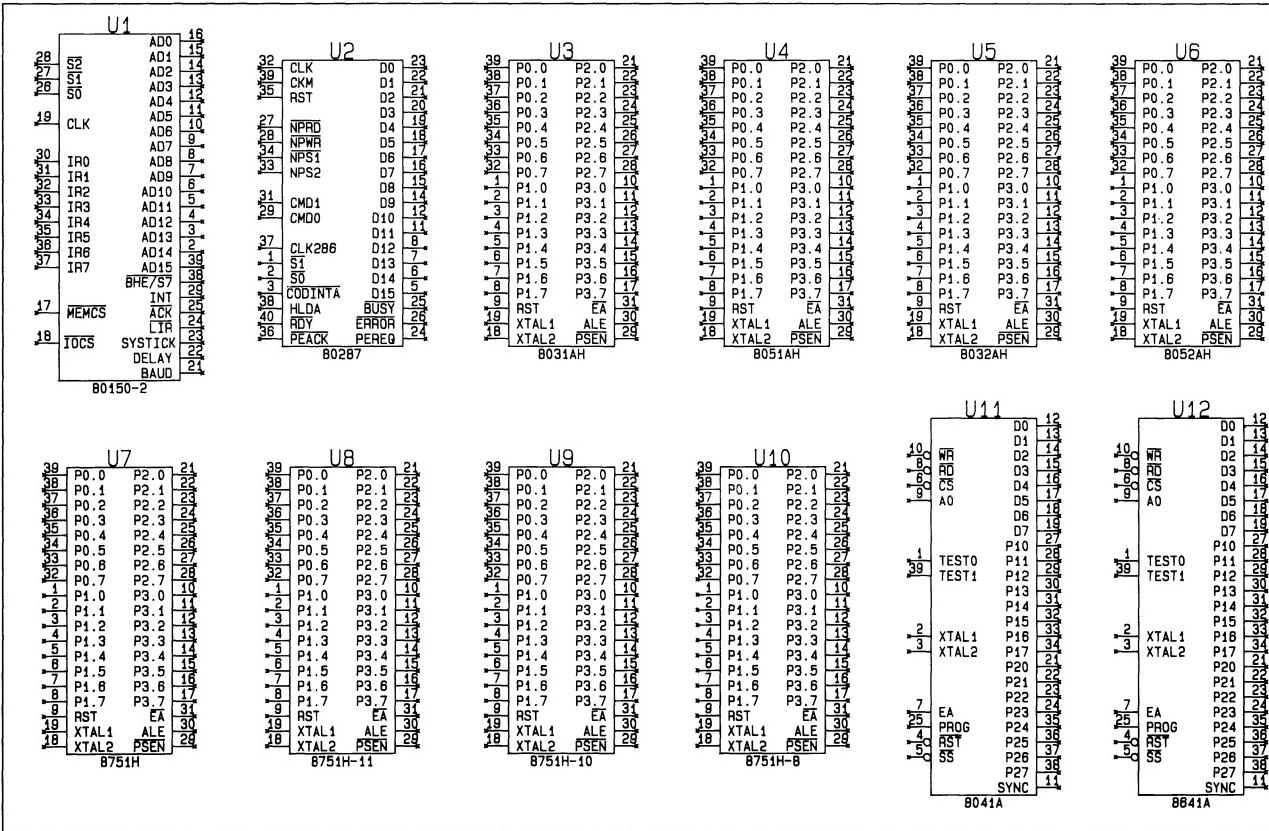
Preliminary

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Component Plots



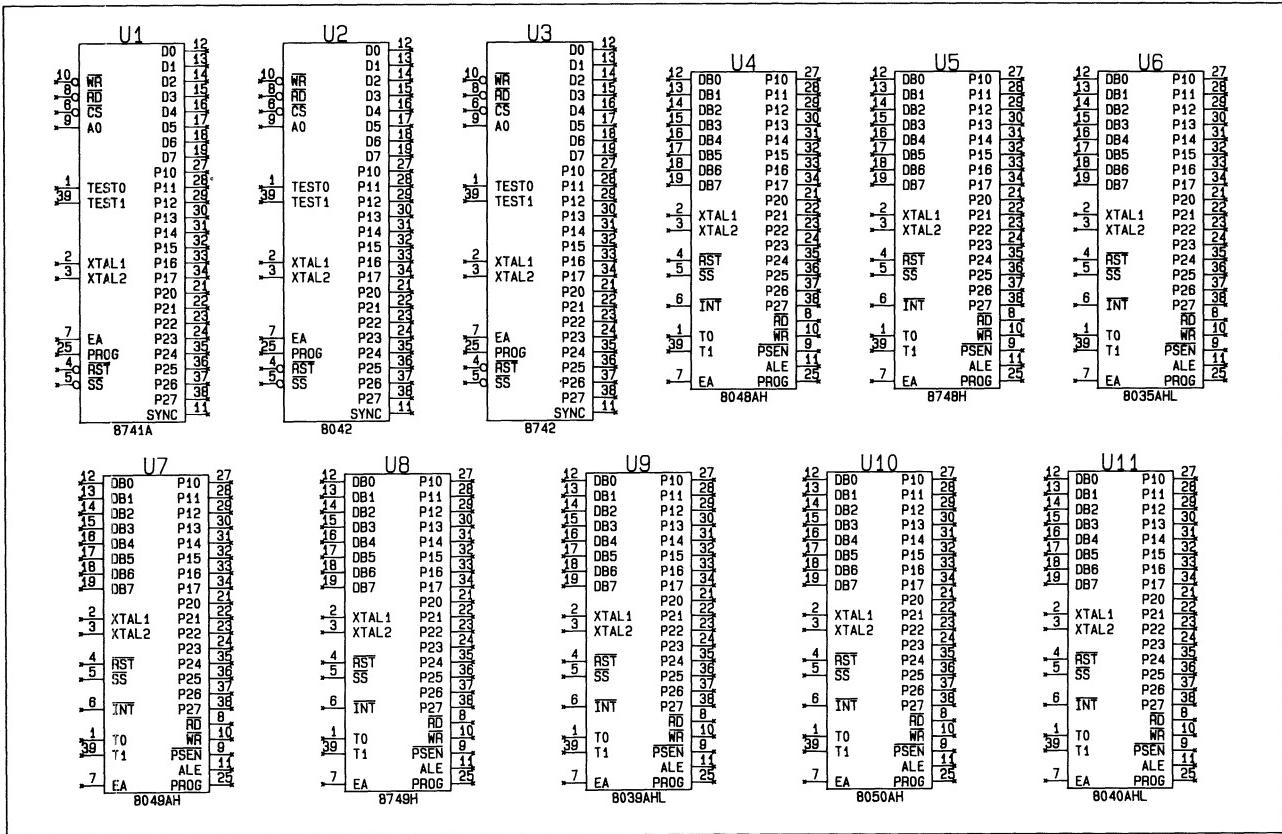


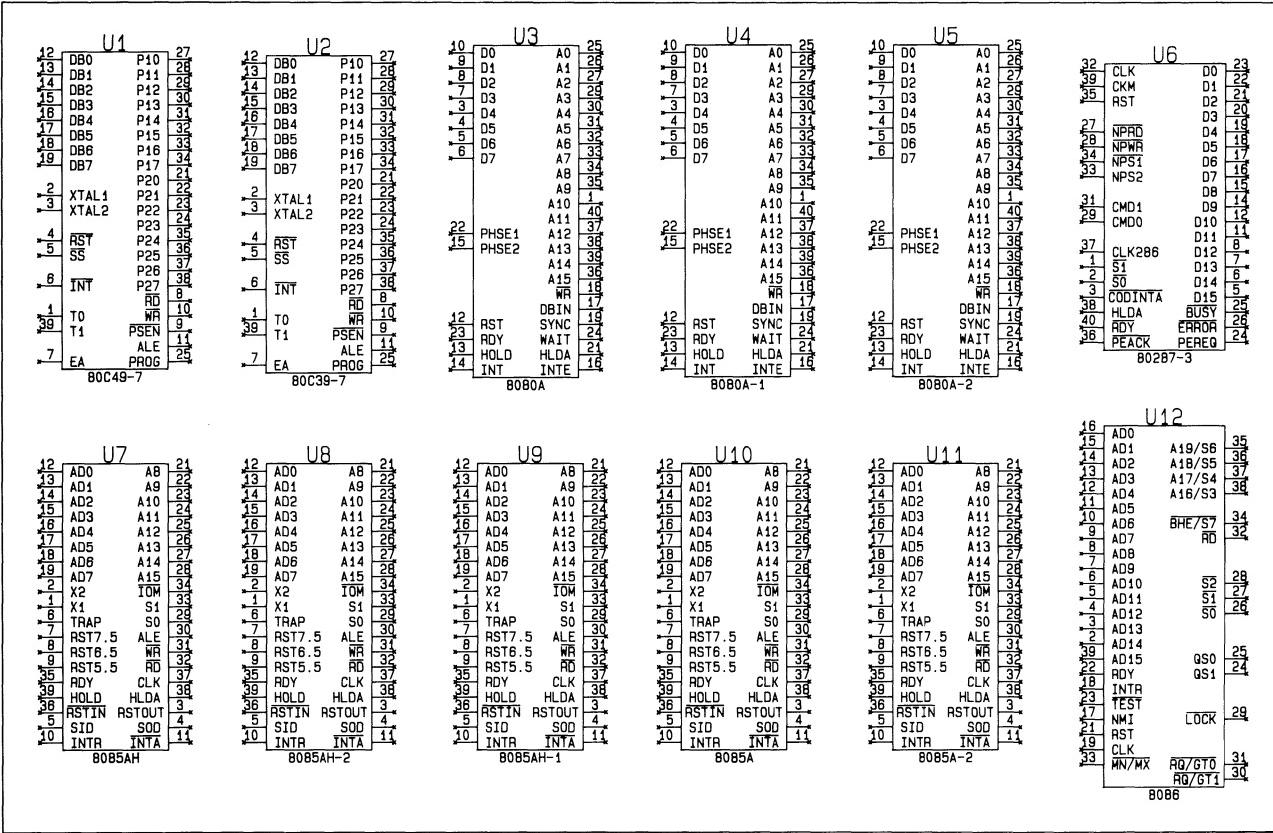
Component Plots

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Preliminary

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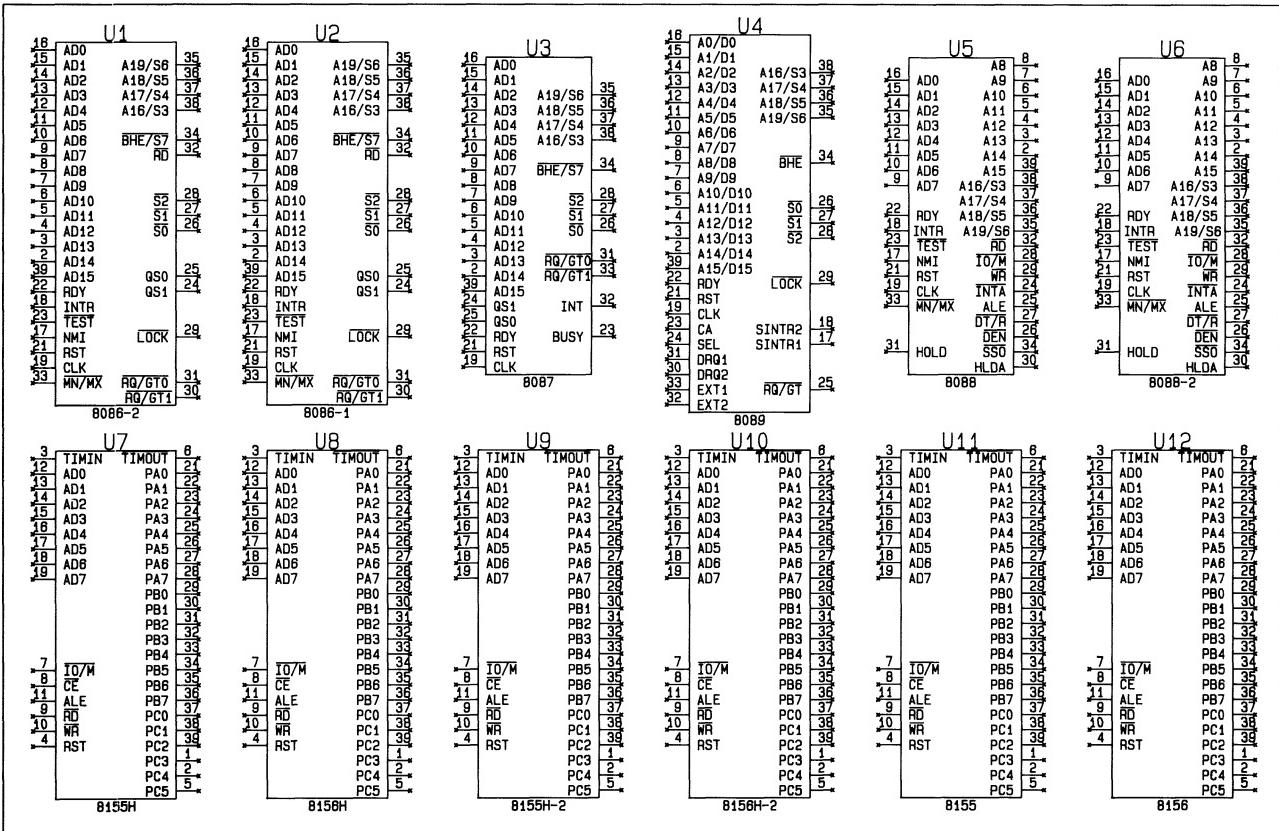


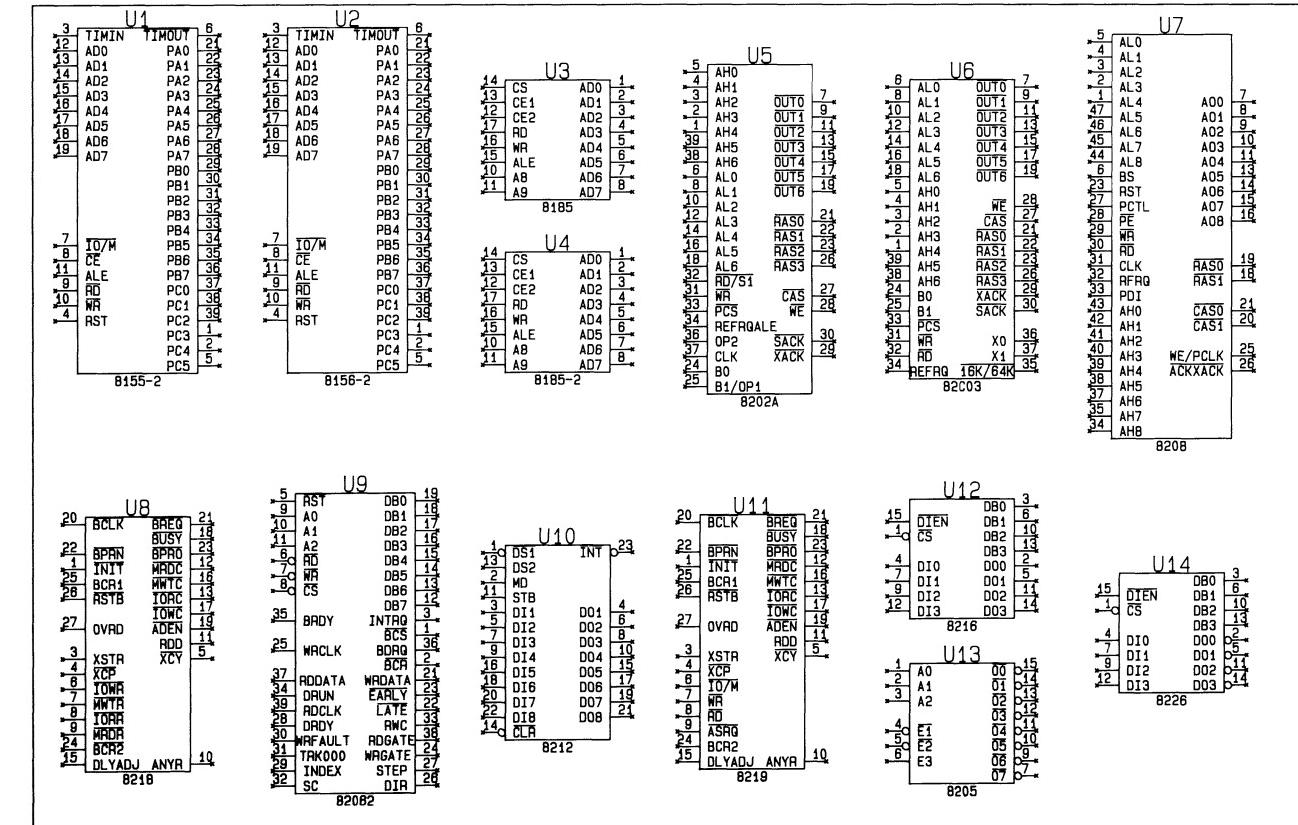
Component Plots

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Preliminary

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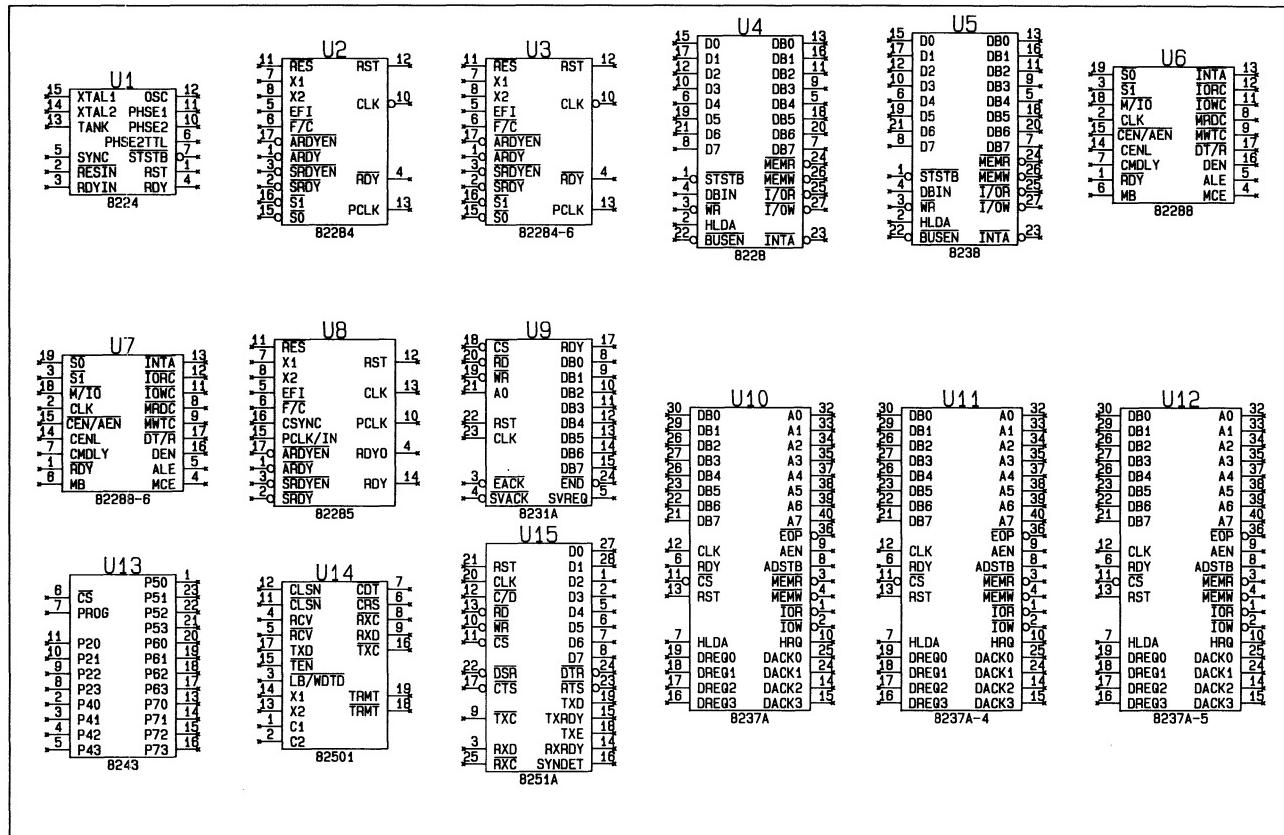




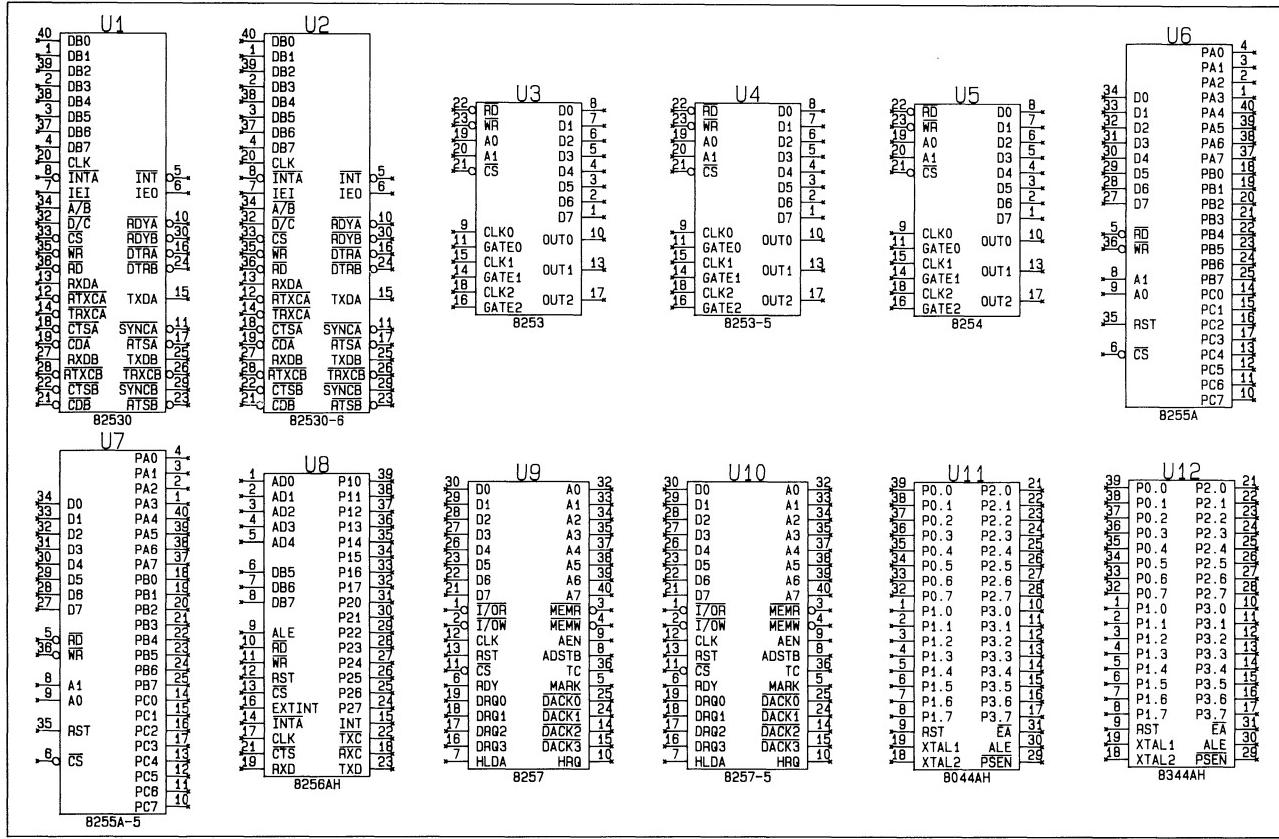
Component Plots

Preliminary

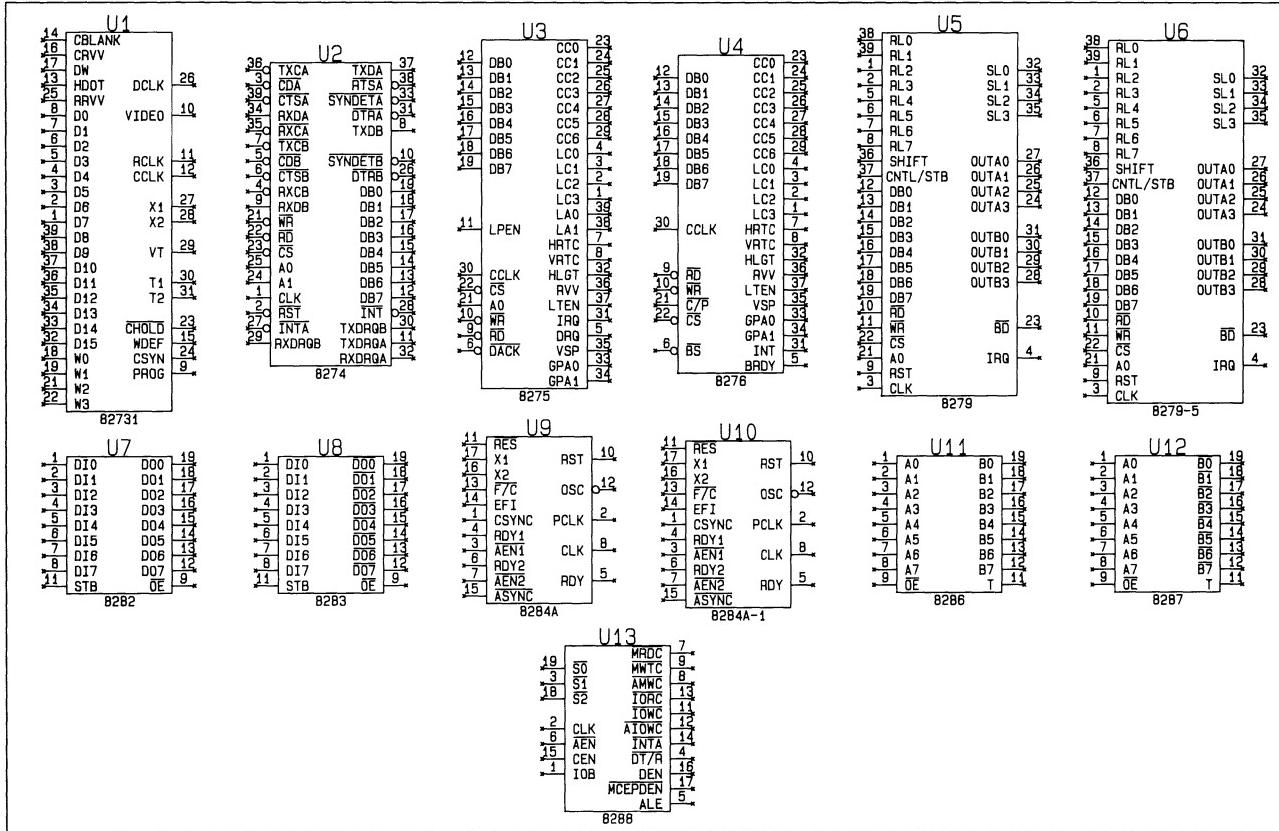
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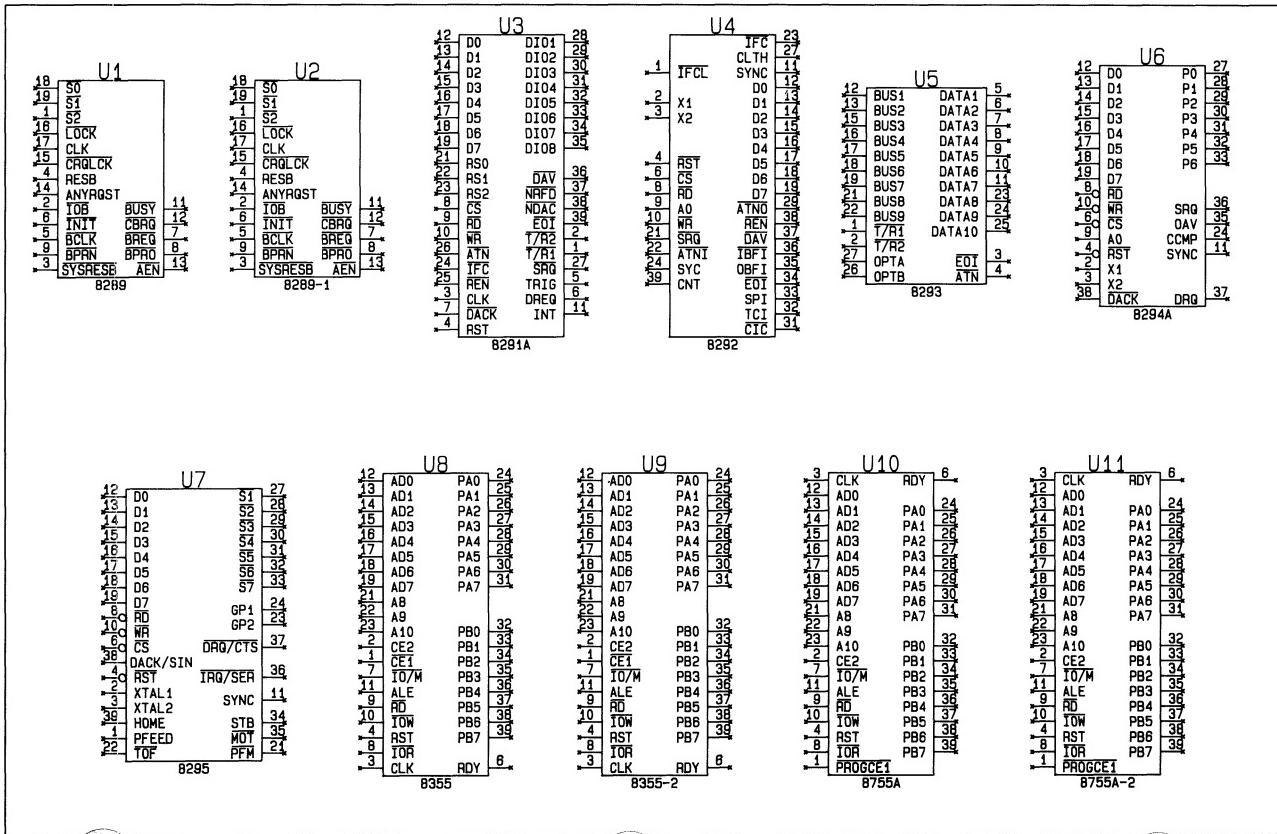
Component Plots

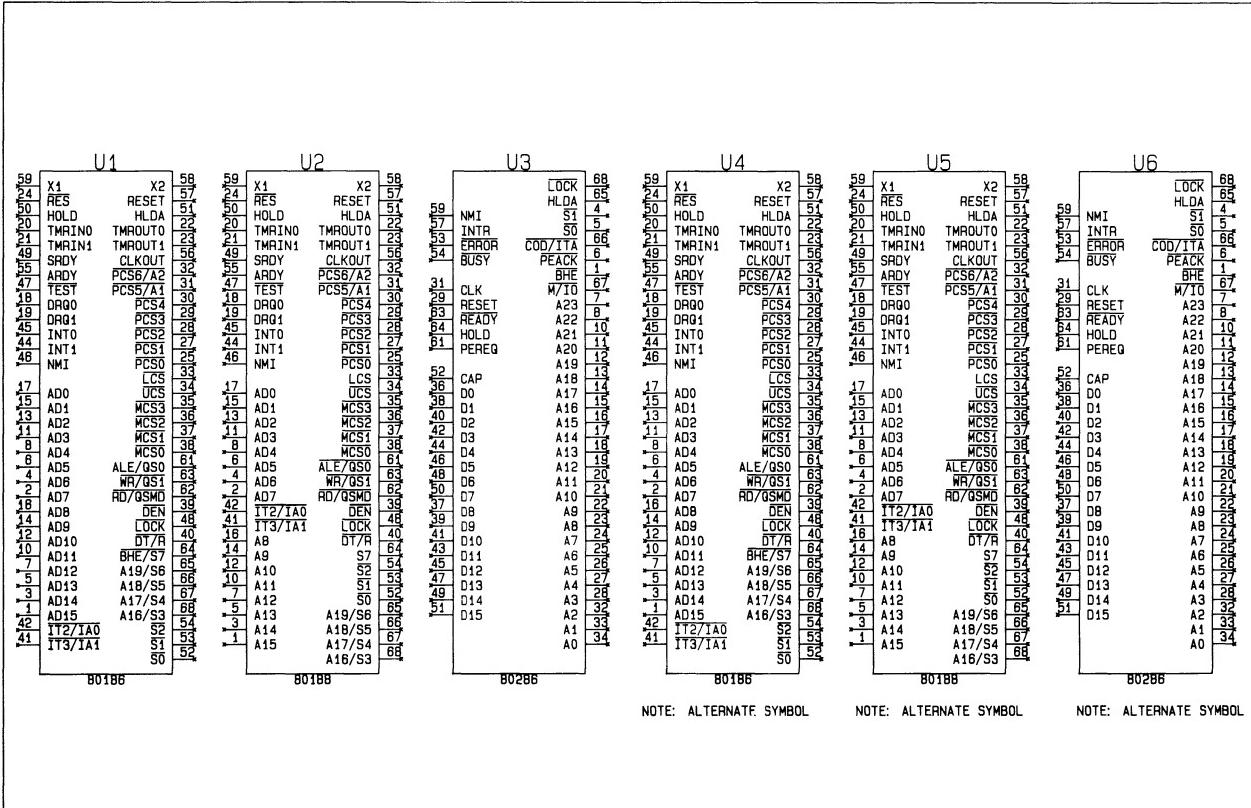


Component Plots



Component Plots





NOTE: ALTERNATE SYMBOL

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COMPONENT PIN SEQUENCES

2764:	A0 A3 A6 A9 A12 OE' O5 O2	A1 A4 A7 A10 CE' O7 O4 O1	A2 A5 A8 A11 PGM' O6 O3 O0
2764A:	A0 A3 A6 A9 A12 OE' O5 O2	A1 A4 A7 A10 CE' O7 O4 O1	A2 A5 A8 A11 PGM' O6 O3 O0
27128:	A0 A3 A6 A9 A12 OE' O5 O2	A1 A4 A7 A10 CE' O7 O4 O1	A2 A5 A8 A11 PGM' O6 O3 O0
27128A:	A0 A3 A6 A9 A12 OE' O5 O2	A1 A4 A7 A10 CE' O7 O4 O1	A2 A5 A8 A11 PGM' O6 O3 O0

Component Pin Sequences

2115A:	A0 A3 A6 A9 DIN	A1 A4 A7 DOUT CS'	A2 A5 A8 WE' '
2125A:	A0 A3 A6 A9 DIN	A1 A4 A7 DOUT CS'	A2 A5 A8 WE' '
2115H:	A0 A3 A6 A9 DIN	A1 A4 A7 DOUT CS'	A2 A5 A8 WE' '
2125H:	A0 A3 A6 A9 DIN	A1 A4 A7 DOUT CS'	A2 A5 A8 WE' '
2004:	A0 A3 A6 OE' I/07 I/04 I/01	A1 A4 A7 WE' I/06 I/03 I/00	A2 A5 CE' NE' I/05 I/02 A8

Component Pin Sequences

8203:	AL0	AL1	AL2
	AL3	AL4	AL5
	AL6	AH0	AH1
	AH2	AH3	AH4
	AH5	AH6	B0
	B1	PCS'	WR'
	RD'	REFRQ	16K/64K'
	X1	X0	SACK'
	XACK'	RAS3'	RAS2'
	RAS1'	RAS0'	CAS'
	WE'	OUT6'	OUT5'
	OUT4'	OUT3'	OUT2'
	OUT1'	OUT0'	
2164A:	A0	A1	A2
	A3	A4	A5
	A6	A7	WE'
	CAS'	RAS'	DOUT
	DIN		
51C64:	A0	A1	A2
	A3	A4	A5
	A6	A7	WE'
	CAS'	RAS'	DOUT
	DIN		
2187A:	A0	A1	A2
	A3	A4	A5
	A6	A7	A8
	A9	A10	A11
	A12	WE'	OE'
	CE'	REFEN'	I/O7
	I/O6	I/O5	I/O4
	I/O3	I/O2	I/O1
	I/O0		

Component Pin Sequences

2817A:	A0 A3 A6 A9 I6/06 I3/03 I0/00 WE'	A1 A4 A7 A10 I5/05 I2/02 CE' RDYBUSY'	A2 A5 A8 I7/07 I4/04 I1/01 OE'
51C65:	A0 A3 A6 CAS' DIN	A1 A4 A7 RAS'	A2 A5 WE' DOUT
2816A:	A0 A3 A6 A9 OE' I6/06 I3/03 I0/00	A1 A4 A7 A10 WE' I5/05 I2/02	A2 A5 A8 CE' I7/07 I4/04 I1/01
27256:	A0 A3 A6 A9 A12 CE' O6 O3 OO	A1 A4 A7 A10 A13 OE' O5 O2	A2 A5 A8 A11 A14 O7 O4 O1

Component Pin Sequences

2186A:	A0	A1	A2
	A3	A4	A5
	A6	A7	A8
	A9	A10	A11
	A12	RDY	WE'
	OE'	CE'	I/O7
	I/O6	I/O5	I/O4
	I/O3	I/O2	I/O1
	I/O0		

2186:	A0	A1	A2
	A3	A4	A5
	A6	A7	A8
	A9	A10	A11
	A12	RDY	WE'
	OE'	CE'	I/O7
	I/O6	I/O5	I/O4
	I/O3	I/O2	I/O1
	I/O0		

2732A:	A0	A1	A2
	A3	A4	A5
	A6	A7	A8
	A9	A10	A11
	OE'	CE'	O7
	O6	O5	O4
	O3	O2	O1
	O0		

2114A:	A0	A1	A2
	A3	A4	A5
	A6	A7	A8
	A9	WE'	CS'
	I/O4	I/O3	I/O2
	I/O1		

Component Pin Sequences

2148H:	A0	A1	A2
	A3	A4	A5
	A6	A7	A8
	A9	WE'	CS'
	I/O4	I/O3	I/O2
	I/O1		

2149H:	A0	A1	A2
	A3	A4	A5
	A6	A7	A8
	A9	WE'	CS'
	I/O4	I/O3	I/O2
	I/O1		

7220:	PWRFAIL'	RST'	WAIT'
	D0	D1	D2
	D3	D4	D5
	D6	D7	D8
	A0	RD'	WR'
	DACK'	CS'	CLK
	BUSRD'	INT	DRQ
	DIO	SYNC'	SHFTCLK'
	C/D'	BTSWEN'	SWAPEN'
	BOOTEN'	R PEN'	TMB'
	TMA'	Y-'	Y+'
	X-'	X+'	DETEN'
	RSTOUT'	ERRFLG'	

Component Pin Sequences

7220-1:	PWRFAIL'	RST'	WAIT'
	D0	D1	D2
	D3	D4	D5
	D6	D7	D8
	A0	RD'	WR'
	DACK'	CS'	CLK
	BUSRD'	INT	DRQ
	DIO	SYNC'	SHFTCLK'
	C/D'	BTSWEN'	SWAPEN'
	BOOTEN'	RPEN'	TMB'
	TMA'	Y-'	Y+'
	X-'	X+'	DETTON'
	RSTOUT'	ERRFLG'	
7220-4:	PWRFAIL'	RST'	WAIT'
	D0	D1	D2
	D3	D4	D5
	D6	D7	D8
	A0	RD'	WR'
	DACK'	CS'	CLK
	BUSRD'	INT	DRQ
	DIO	SYNC'	SHFTCLK'
	C/D'	BTSWEN'	SWAPEN'
	BOOTEN'	RPEN'	TMB'
	TMA'	Y-'	Y+'
	X-'	X+'	DETTON'
	RSTOUT'	ERRFLG'	

Component Pin Sequences

7220-5:	PWRFAIL'	RST'	WAIT'
	D0	D1	D2
	D3	D4	D5
	D6	D7	D8
	A0	RD'	WR'
	DACK'	CS'	CLK
	BUSRD'	INT	DRQ
	DIO	SYNC'	SHFTCLK'
	C/D'	BTSWEN'	SWAPEN'
	BOOTEN'	RPEN'	TMB'
	TMA'	Y-'	Y+'
	X-'	X+'	DETTON'
	RSTOUT'	ERRFLG'	
7224:	PWRFAIL'	RST'	WAIT'
	D0	D1	D2
	D3	D4	D5
	D6	D7	D8
	A0	RD'	WR'
	DACK'	CS'	CLK
	BUSRD'	INT	DRQ
	DIO	SYNC'	SHFTCLK'
	C/D'	BTSWEN'	SWAPEN'
	BOOTEN'	RPEN'	TMB'
	TMA'	Y-'	Y+'
	X-'	X+'	DETTON'
	RSTOUT'	ERRFLG'	

Component Pin Sequences

80130:	CLK	IR0	IR1
	IR2	IR3	IR4
	IR5	IR6	IR7
	MEMCS'	IOCS'	BAUD
	DELAY	SYSTICK	LIR'
	ACK'	INT	BHE/S7'
	AD15	AD14	AD13
	AD12	AD11	AD10
	AD9	AD8	AD7
	AD6	AD5	AD4
	AD3	AD2	AD1
	AD0	S2'	S1'
	S0'		
80150:	CLK	IR0	IR1
	IR2	IR3	IR4
	IR5	IR6	IR7
	MEMCS'	IOCS'	BAUD
	DELAY	SYSTICK	LIR'
	ACK'	INT	BHE/S7'
	AD15	AD14	AD13
	AD12	AD11	AD10
	AD9	AD8	AD7
	AD6	AD5	AD4
	AD3	AD2	AD1
	AD0	S2'	S1'
	S0'		

Component Pin Sequences

80130-2:	CLK	IR0	IR1
	IR2	IR3	IR4
	IR5	IR6	IR7
	MEMCS'	IOCS'	BAUD
	DELAY	SYSTICK	LIR'
	ACK'	INT	BHE/S7'
	AD15	AD14	AD13
	AD12	AD11	AD10
	AD9	AD8	AD7
	AD6	AD5	AD4
	AD3	AD2	AD1
	AD0	S2'	S1'
	S0'		
80150-2:	CLK	IR0	IR1
	IR2	IR3	IR4
	IR5	IR6	IR7
	MEMCS'	IOCS'	BAUD
	DELAY	SYSTICK	LIR'
	ACK'	INT	BHE/S7'
	AD15	AD14	AD13
	AD12	AD11	AD10
	AD9	AD8	AD7
	AD6	AD5	AD4
	AD3	AD2	AD1
	AD0	S2'	S1'
	S0'		
80287:	CLK	CKM	RST
	NPRD'	NPWR'	NPS1'
	NPS2	CMD1	CMD0
	CLK286	S1'	S0'
	CODINTA'	HLDA	RDY'
	PEACK'	ERROR'	BUSY'
	D15	D14	D13
	D12	D11	D10
	D9	D8	D7
	D6	D5	D4
	D3	D2	D1
	D0	PEREQ	

Component Pin Sequences

8031AH:	P0.0	P0.1	P0.2
	P0.3	P0.4	P0.5
	P0.6	P0.7	P1.0
	P1.1	P1.2	P1.3
	P1.4	P1.5	P1.6
	P1.7	RST	XTAL1
	XTAL2	PSEN'	ALE
	EA'	P3.7	P3.6
	P3.5	P3.4	P3.3
	P3.2	P3.1	P3.0
	P2.7	P2.6	P2.5
	P2.4	P2.3	P2.2
	P2.1	P2.0	
8051AH:	P0.0	P0.1	P0.2
	P0.3	P0.4	P0.5
	P0.6	P0.7	P1.0
	P1.1	P1.2	P1.3
	P1.4	P1.5	P1.6
	P1.7	RST	XTAL1
	XTAL2	PSEN'	ALE
	EA'	P3.7	P3.6
	P3.5	P3.4	P3.3
	P3.2	P3.1	P3.0
	P2.7	P2.6	P2.5
	P2.4	P2.3	P2.2
	P2.1	P2.0	

Component Pin Sequences

8032AH:	P0.0	P0.1	P0.2
	P0.3	P0.4	P0.5
	P0.6	P0.7	P1.0
	P1.1	P1.2	P1.3
	P1.4	P1.5	P1.6
	P1.7	RST	XTAL1
	XTAL2	PSEN'	ALE
	EA'	P3.7	P3.6
	P3.5	P3.4	P3.3
	P3.2	P3.1	P3.0
	P2.7	P2.6	P2.5
	P2.4	P2.3	P2.2
	P2.1	P2.0	

8052AH:	P0.0	3P0.1	P0.2
	P0.3	P0.4	P0.5
	P0.6	P0.7	P1.0
	P1.1	P1.2	P1.3
	P1.4	P1.5	P1.6
	P1.7	RST	XTAL1
	XTAL2	PSEN'	ALE
	EA'	P3.7	P3.6
	P3.5	P3.4	P3.3
	P3.2	P3.1	P3.0
	P2.7	P2.6	P2.5
	P2.4	P2.3	P2.2
	P2.1	P2.0	

Component Pin Sequences

8751H:	P0.0	P0.1	P0.2
	P0.3	P0.4	P0.5
	P0.6	P0.7	P1.0
	P1.1	P1.2	P1.3
	P1.4	P1.5	P1.6
	P1.7	RST	XTALL
	XTAL2	PSEN'	ALE
	EA'	P3.7	P3.6
	P3.5	P3.4	P3.3
	P3.2	P3.1	P3.0
	P2.7	P2.6	P2.5
	P2.4	P2.3	P2.2
	P2.1	P2.0	

8751H-11:	P0.0	P0.1	P0.2
	P0.3	P0.4	P0.5
	P0.6	P0.7	P1.0
	P1.1	P1.2	P1.3
	P1.4	P1.5	P1.6
	P1.7	RST	XTALL
	XTAL2	PSEN'	ALE
	EA'	P3.7	P3.6
	P3.5	P3.4	P3.3
	P3.2	P3.1	P3.0
	P2.7	P2.6	P2.5
	P2.4	P2.3	P2.2
	P2.1	P2.0	

Component Pin Sequences

8751H-10:	P0.0	P0.1	P0.2
	P0.3	P0.4	P0.5
	P0.6	P0.7	P1.0
	P1.1	P1.2	P1.3
	P1.4	P1.5	P1.6
	P1.7	RST	XTALL
	XTAL2	PSEN'	ALE
	EA'	P3.7	P3.6
	P3.5	P3.4	P3.3
	P3.2	P3.1	P3.0
	P2.7	P2.6	P2.5
	P2.4	P2.3	P2.2
	P2.1	P2.0	

8751H-8:	P0.0	P0.1	P0.2
	P0.3	P0.4	P0.5
	P0.6	P0.7	P1.0
	P1.1	P1.2	P1.3
	P1.4	P1.5	P1.6
	P1.7	RST	XTALL
	XTAL2	PSEN'	ALE
	EA'	P3.7	P3.6
	P3.5	P3.4	P3.3
	P3.2	P3.1	P3.0
	P2.7	P2.6	P2.5
	P2.4	P2.3	P2.2
	P2.1	P2.0	

Component Pin Sequences

8041A:	WR'	RD'	CS'
	A0	TEST0	TEST1
	XTALL	XTAL2	EA
	PROG	RST'	SS'
	SYNC	P27	P26
	P25	P24	P23
	P22	P21	P20
	P17	P16	P15
	P14	P13	P12
	P11	P10	D7
	D6	D5	D4
	D3	D2	D1
	D0		

8641A:	WR'	RD'	CS'
	A0	TEST0	TEST1
	XTALL	XTAL2	EA
	PROG	RST'	SS'
	SYNC	P27	P26
	P25	P24	P23
	P22	P21	P20
	P17	P16	P15
	P14	P13	P12
	P11	P10	D7
	D6	D5	D4
	D3	D2	D1
	D0		

Component Pin Sequences

8741A:	WR'	RD'	CS'
	A0	TEST0	TEST1
	XTALL	XTAL2	EA
	PROG	RST'	SS'
	SYNC	P27	P26
	P25	P24	P23
	P22	P21	P20
	P17	P16	P15
	P14	P13	P12
	P11	P10	D7
	D6	D5	D4
	D3	D2	D1
	D0		

8042:	WR'	RD'	CS'
	A0	TEST0	TEST1
	XTALL	XTAL2	EA
	PROG	RST'	SS'
	SYNC	P27	P26
	P25	P24	P23
	P22	P21	P20
	P17	P16	P15
	P14	P13	P12
	P11	P10	D7
	D6	D5	D4
	D3	D2	D1
	D0		

Component Pin Sequences

8742:	WR'	RD'	CS'
	A0	TEST0	TEST1
	XTALL	XTAL2	EA
	PROG	RST'	SS'
	SYNC	P27	P26
	P25	P24	P23
	P22	P21	P20
	P17	P16	P15
	P14	P13	P12
	P11	P10	D7
	D6	D5	D4
	D3	D2	D1
	D0		

8048AH:	DB0	DB1	DB2
	DB3	DB4	DB5
	DB6	DB7	XTALL
	XTAL2	RST'	SS'
	INT'	T0	T1
	EA	PROG	ALE
	PSEN'	WR'	RD'
	P27	P26	P25
	P24	P23	P22
	P21	P20	P17
	P16	P15	P14
	P13	P12	P11
	P10		

Component Pin Sequences

8748H:	DB0	DB1	DB2
	DB3	DB4	DB5
	DB6	DB7	XTALL
	XTAL2	RST'	SS'
	INT'	T0	T1
	EA	PROG	ALE
	PSEN'	WR'	RD'
	P27	P26	P25
	P24	P23	P22
	P21	P20	P17
	P16	P15	P14
	P13	P12	P11
	P10		

8035AHL:	DB0	DB1	DB2
	DB3	DB4	DB5
	DB6	DB7	XTALL
	XTAL2	RST'	SS'
	INT'	T0	T1
	EA	PROG	ALE
	PSEN'	WR'	RD'
	P27	P26	P25
	P24	P23	P22
	P21	P20	P17
	P16	P15	P14
	P13	P12	P11
	P10		

Component Pin Sequences

8049AH:	DB0	DB1	DB2
	DB3	DB4	DB5
	DB6	DB7	XTALL
	XTAL2	RST'	SS'
	INT'	T0	T1
	EA	PROG	ALE
	PSEN'	WR'	RD'
	P27	P26	P25
	P24	P23	P22
	P21	P20	P17
	P16	P15	P14
	P13	P12	P11
	P10		

8749H:	DB0	DB1	DB2
	DB3	DB4	DB5
	DB6	DB7	XTALL
	XTAL2	RST'	SS'
	INT'	T0	T1
	EA	PROG	ALE
	PSEN'	WR'	RD'
	P27	P26	P25
	P24	P23	P22
	P21	P20	P17
	P16	P15	P14
	P13	P12	P11
	P10		

Component Pin Sequences

8039AHL:	DB0	DB1	DB2
	DB3	DB4	DB5
	DB6	DB7	XTALL
	XTAL2	RST'	SS'
	INT'	T0	T1
	EA	PROG	ALE
	PSEN'	WR'	RD'
	P27	P26	P25
	P24	P23	P22
	P21	P20	P17
	P16	P15	P14
	P13	P12	P11
	P10		

8050AH:	DB0	DB1	DB2
	DB3	DB4	DB5
	DB6	DB7	XTALL
	XTAL2	RST'	SS'
	INT'	T0	T1
	EA	PROG	ALE
	PSEN'	WR'	RD'
	P27	P26	P25
	P24	P23	P22
	P21	P20	P17
	P16	P15	P14
	P13	P12	P11
	P10		

Component Pin Sequences

8040AHL:	DB0	DB1	DB2
	DB3	DB4	DB5
	DB6	DB7	XTAL1
	XTAL2	RST'	SS'
	INT'	T0	T1
	EA	PROG	ALE
	PSEN'	WR'	RD'
	P27	P26	P25
	P24	P23	P22
	P21	P20	P17
	P16	P15	P14
	P13	P12	P11
	P10		

80C49-7:	DB0	DB1	DB2
	DB3	DB4	DB5
	DB6	DB7	XTAL1
	XTAL2	RST'	SS'
	INT'	T0	T1
	EA	PROG	ALE
	PS'	WR'	RD'
	P27	P26	P25
	P24	P23	P22
	P21	P20	P17
	P16	P15	P14
	P13	P12	P11
	P10		

Component Pin Sequences

80C39-7:	DB0	DB1	DB2
	DB3	DB4	DB5
	DB6	DB7	XTALL
	XTAL2	RST'	SS'
	INT'	T0	T1
	EA	PROG	ALE
	PSEN'	WR'	RD'
	P27	P26	P25
	P24	P23	P22
	P21	P20	P17
	P16	P15	P14
	P13	P12	P11
	P10		

8080A:	D0	D1	D2
	D3	D4	D5
	D6	D7	RST
	RDY	HOLD	INT
	INTE	HLDA	WAIT
	SYNC	DBIN	WR'
	A15	A14	A13
	A12	A11	A10
	A9	A8	A7
	A6	A5	A4
	A3	A2	A1
	A0	PHSE1	PHSE2

8080A-1:	D0	D1	D2
	D3	D4	D5
	D6	D7	RST
	RDY	HOLD	INT
	INTE	HLDA	WAIT
	SYNC	DBIN	WR'
	A15	A14	A13
	A12	A11	A10
	A9	A8	A7
	A6	A5	A4
	A3	A2	A1
	A0	PHSE1	PHSE2

Component Pin Sequences

8080A-2:	D0	D1	D2
	D3	D4	D5
	D6	D7	RST
	RDY	HOLD	INT
	INTE	HLDA	WAIT
	SYNC	DBIN	WR'
	A15	A14	A13
	A12	A11	A10
	A9	A8	A7
	A6	A5	A4
	A3	A2	A1
	A0	PHSE1	PHSE2

80287-3:	CLK	CKM	RST
	NPRD'	NPWR'	NPS1'
	NPS2	CMD1	CMD0
	CLK286	S1'	S0'
	CODINTA'	HLDA	RDY'
	PEACK'	ERROR'	BUSY'
	D15	D14	D13
	D12	D11	D10
	D9	D8	D7
	D6	D5	D4
	D3	D2	D1
	D0	PEREQ	

8085AH:	X2	X1	TRAP
	RST7.5	RST6.5	RST5.5
	RDY	HOLD	SID
	INTR	INTA'	SOD
	RSTOUT	HLDA	CLK
	RD'	WR'	ALE
	S0	S1	IOM'
	A15	A14	A13
	A12	A11	A10
	A9	A8	AD0
	AD1	AD2	AD3
	AD4	AD5	AD6
	AD7	RSTIN'	

Component Pin Sequences

8085AH-2:	X2	X1	TRAP
	RST7.5	RST6.5	RST5.5
	RDY	HOLD	SID
	INTR	INTA'	SOD
	RSTOUT	HLDA	CLK
	RD'	WR'	ALE
	S0	S1	IOM'
	A15	A14	A13
	A12	A11	A10
	A9	A8	AD0
	AD1	AD2	AD3
	AD4	AD5	AD6
	AD7	RSTIN'	
8085AH-1:	X2	X1	TRAP
	RST7.5	RST6.5	RST5.5
	RDY	HOLD	SID
	INTR	INTA'	SOD
	RSTOUT	HLDA	CLK
	RD'	WR'	ALE
	S0	S1	IOM'
	A15	A14	A13
	A12	A11	A10
	A9	A8	AD0
	AD1	AD2	AD3
	AD4	AD5	AD6
	AD7	RSTIN'	

Component Pin Sequences

8085A:	X2	X1	TRAP
	RST7.5	RST6.5	RST5.5
	RDY	HOLD	SID
	INTR	INTA'	SOD
	RSTOUT	HLDA	CLK
	RD'	WR'	ALE
	S0	S1	IOM'
	A15	A14	A13
	A12	A11	A10
	A9	A8	AD0
	AD1	AD2	AD3
	AD4	AD5	AD6
	AD7	RSTIN'	

8085A-2:	X2	X1	TRAP
	RST7.5	RST6.5	RST5.5
	RDY	HOLD	SID
	INTR	INTA'	SOD
	RSTOUT	HLDA	CLK
	RD'	WR'	ALE
	S0	S1	IOM'
	A15	A14	A13
	A12	A11	A10
	A9	A8	AD0
	AD1	AD2	AD3
	AD4	AD5	AD6
	AD7	RSTIN'	

Component Pin Sequences

8086:	AD0	AD1	AD2
	AD3	AD4	AD5
	AD6	AD7	AD8
	AD9	AD10	AD11
	AD12	AD13	AD14
	AD15	RDY	INTR
	TEST'	NMI	RST
	CLK	MN/MX'	RQ/GT1'
	LOCK'	QS1	QS0
	RD'	BHE/S7'	A16/S3
	A17/S4	A18/S5	A19/S6
	S2'	S1'	S0'
	RQ/GT0'		

8086-2:	AD0	AD1	AD2
	AD3	AD4	AD5
	AD6	AD7	AD8
	AD9	AD10	AD11
	AD12	AD13	AD14
	AD15	RDY	INTR
	TEST'	NMI	RST
	CLK	MN/MX'	RQ/GT1'
	LOCK'	QS1	QS0
	RD'	BHE/S7'	A16/S3
	A17/S4	A18/S5	A19/S6
	S2'	S1'	S0'
	RQ/GT0'		

Component Pin Sequences

8086-1:	AD0	AD1	AD2
	AD3	AD4	AD5
	AD6	AD7	AD8
	AD9	AD10	AD11
	AD12	AD13	AD14
	AD15	RDY	INTR
	TEST'	NMI	RST
	CLK	MN/MX'	RQ/GT1'
	LOCK'	QS1	QS0
	RD'	BHE/S7'	A16/S3
	A17/S4	A18/S5	A19/S6
	S2'	S1'	S0'
	RQ/GT0'		
8087:	AD0	AD1	AD2
	AD3	AD4	AD5
	AD6	AD7	AD8
	AD9	AD10	AD11
	AD12	AD13	AD14
	AD15	QS1	QS0
	RDY	RST	CLK
	BUSY	INT	RQ/GT0'
	S0'	S1'	S2'
	BHE/S7'	A16/S3	A17/S4
	A18/S5	A19/S6	RQ/GT1'
8089:	A0/D0	A1/D1	A2/D2
	A3/D3	A4/D4	A5/D5
	A6/D6	A7/D7	A8/D8
	A9/D9	A10/D10	A11/D11
	A12/D12	A13/D13	A14/D14
	A15/D15	RDY	RST
	CLK	CA	SEL
	DRQ1	DRQ2	EXT1
	EXT2	RQ/GT'	SINTR1
	SINTR2	LOCK'	S2'
	S1'	S0'	BHE'
	A19/S6	A18/S5	A17/S4
	A16/S3		

Component Pin Sequences

8088:	AD0	AD1	AD2
	AD3	AD4	AD5
	AD6	AD7	RDY
	INTR	TEST'	NMI
	RST	CLK	HOLD
	HLDA	SSO'	DEN'
	DT/R'	ALE	INTA'
	WR'	IO/M'	RD'
	A19/S6	A18/S5	A17/S4
	A16/S3	A15	A14
	A13	A12	A11
	A10	A9	A8
	MN/MX'		

8088-2:	AD0	AD1	AD2
	AD3	AD4	AD5
	AD6	AD7	RDY
	INTR	TEST'	NMI
	RST	CLK	HOLD
	HLDA	SSO'	DEN'
	DT/R'	ALE	INTA'
	WR'	IO/M'	RD'
	A19/S6	A18/S5	A17/S4
	A16/S3	A15	A14
	A13	A12	A11
	A10	A9	A8
	MN/MX'		

Component Pin Sequences

8155H:	ALE	RD'	WR'
	RST	PC5	PC4
	PC3	PC2	PC1
	PC0	PB7	PB6
	PB5	PB4	PB3
	PB2	PB1	PB0
	PA7	PA6	PA5
	PA4	PA3	PA2
	PA1	PA0	TIMIN
	AD0	AD1	AD2
	AD3	AD4	AD5
	AD6	AD7	TIMOUT'
	IO/M'	CE'	

8156H:	ALE	RD'	WR'
	RST	PC5	PC4
	PC3	PC2	PC1
	PC0	PB7	PB6
	PB5	PB4	PB3
	PB2	PB1	PB0
	PA7	PA6	PA5
	PA4	PA3	PA2
	PA1	PA0	TIMIN
	AD0	AD1	AD2
	AD3	AD4	AD5
	AD6	AD7	TIMOUT'
	IO/M'	CE'	

Component Pin Sequences

8155H-2:	ALE	RD'	WR'
	RST	PC5	PC4
	PC3	PC2	PC1
	PC0	PB7	PB6
	PB5	PB4	PB3
	PB2	PB1	PB0
	PA7	PA6	PA5
	PA4	PA3	PA2
	PA1	PA0	TIMIN
	AD0	AD1	AD2
	AD3	AD4	AD5
	AD6	AD7	TIMOUT'
	IO/M'	CE'	

8156H-2:	ALE	RD'	WR'
	RST	PC5	PC4
	PC3	PC2	PC1
	PC0	PB7	PB6
	PB5	PB4	PB3
	PB2	PB1	PB0
	PA7	PA6	PA5
	PA4	PA3	PA2
	PA1	PA0	TIMIN
	AD0	AD1	AD2
	AD3	AD4	AD5
	AD6	AD7	TIMOUT'
	IO/M'	CE'	

Component Pin Sequences

8155:	ALE	RD'	WR'
	RST	PC5	PC4
	PC3	PC2	PC1
	PC0	PB7	PB6
	PB5	PB4	PB3
	PB2	PB1	PB0
	PA7	PA6	PA5
	PA4	PA3	PA2
	PA1	PA0	TIMIN
	AD0	AD1	AD2
	AD3	AD4	AD5
	AD6	AD7	TIMOUT'
	IO/M'	CE'	

8156:	ALE	RD'	WR'
	RST	PC5	PC4
	PC3	PC2	PC1
	PC0	PB7	PB6
	PB5	PB4	PB3
	PB2	PB1	PB0
	PA7	PA6	PA5
	PA4	PA3	PA2
	PA1	PA0	TIMIN
	AD0	AD1	AD2
	AD3	AD4	AD5
	AD6	AD7	TIMOUT'
	IO/M'	CE'	

Component Pin Sequences

8155-2:	ALE	RD'	WR'
	RST	PC5	PC4
	PC3	PC2	PC1
	PC0	PB7	PB6
	PB5	PB4	PB3
	PB2	PB1	PB0
	PA7	PA6	PA5
	PA4	PA3	PA2
	PA1	PA0	TIMIN
	AD0	AD1	AD2
	AD3	AD4	AD5
	AD6	AD7	TIMOUT'
	IO/M'	CE'	
8156-2:	ALE	RD'	WR'
	RST	PC5	PC4
	PC3	PC2	PC1
	PC0	PB7	PB6
	PB5	PB4	PB3
	PB2	PB1	PB0
	PA7	PA6	PA5
	PA4	PA3	PA2
	PA1	PA0	TIMIN
	AD0	AD1	AD2
	AD3	AD4	AD5
	AD6	AD7	TIMOUT'
	IO/M'	CE'	
8185:	CS	CE1	CE2
	RD	WR	ALE
	A8	A9	AD7
	AD6	AD5	AD4
	AD3	AD2	AD1
	AD0		

Component Pin Sequences

8185-2:	CS	CE1	CE2
	RD	WR	ALE
	A8	A9	AD7
	AD6	AD5	AD4
	AD3	AD2	AD1
	ADO		

8202A:	AH0	AH1	AH2
	AH3	AH4	AH5
	AH6	AL0	ALL
	AL2	AL3	AL4
	AL5	AL6	RD/S1'
	WR'	PCS'	REFRQALE
	OP2	CLK	B0
	B1/OP1	XACK'	SACK'
	WE'	CAS'	RAS3'
	RAS2'	RAS1'	RAS0'
	OUT6'	OUT5'	OUT4'
	OUT3'	OUT2'	OUT1'
	OUT0'		

82C03:	AL0	ALL	AL2
	AL3	AL4	AL5
	AL6	AH0	AH1
	AH2	AH3	AH4
	AH5	AH6	B0
	B1	PCS'	WR'
	RD'	REFRQ	16K/64K'
	X1	X0	SACK'
	XACK'	RAS3'	RAS2'
	RAS1'	RAS0'	CAS'
	WE'	OUT6'	OUT5'
	OUT4'	OUT3'	OUT2'
	OUT1'	OUT0'	

Component Pin Sequences

8208:	AL0	AL1	AL2
	AL3	AL4	AL5
	AL6	AL7	AL8
	BS	RST	PCTL
	PE'	WR'	RD'
	CLK	RFRQ	PDI
	AH0	AH1	AH2
	AH3	AH4	AH5
	AH6	AH7	AH8
	ACKXACK'	WE/PCLK	CAS1'
	CAS0'	RAS1'	RAS0'
	AO8	AO7	AO6
	AO5	AO4	AO3
	AO2	AO1	AO0
8218:	BCLK'	BPRN'	INIT'
	BCR1	RSTB'	OVRD
	XSTR	XCP'	IOWR'
	MWTR'	IORR'	MRDR'
	BCR2'	DLYADJ	ANYR
	XCY'	RDD	ADEN'
	IOWC'	IORC'	MWTC'
	MRDC'	BPRO'	BUSY'
	BREQ'		
82062:	RST'	A0	A1
	A2	RD'	WR'
	CS'	BRDY	WRCLK
	RDDATA	DRUN	RDCLK
	DRDY	WRFAULT	TRK000
	INDEX	SC	DIR
	STEP	WRGATE	RDGATE
	RWC	LATE'	EARLY'
	BCR'	BDRQ	BCS'
	INTRQ	DB7	DB6
	DB5	DB4	DB3
	DB2	DB1	DB0
	WRDATA		

Component Pin Sequences

8212:	DS1'	DS2	MD
	STB	DI1	DI2
	DI3	DI4	DI5
	DI6	DI7	DI8
	CLR'	DO8	DO7
	DO6	DO5	DO4
	DO3	DO2	DO1
	INT'		

8219:	BCLK'	BPRN'	INIT'
	BCR1	RSTB'	OVRD
	XSTR	XCP'	DLYADJ
	ANYR	XCY'	RDD
	ADEN'	IOWC'	IORC'
	MWTC'	MRDC'	BPRO'
	BUSY'	BREQ'	IO/M'
	WR'	RD'	ASRQ'
	BCR2		

8216:	DIEN'	CS'	DI0
	DI1	DI2	DI3
	DO3	DO2	DO1
	DO0	DB3	DB2
	DB1	DB0	

8205:	A0	A1	A2
	E1'	E2'	E3
	O7'	O6'	O5'
	O4'	O3'	O2'
	O1'	O0'	

8226:	DIEN'	CS'	DI0
	DI1	DI2	DI3
	DO3	DO2	DO1
	DO0	DB3	DB2
	DB1	DB0	

Component Pin Sequences

8224:	XTALL SYNC RDY OSC PHSEL	XTAL2 RESIN' RST PHSE2TTL	TANK RDYIN STSTB' PHSE2
82284:	RES' EFI ARDY' S1' CLK	X1 F/C' SRDYEN' S0' RST	X2 ARDYEN' SRDY' PCLK RDY'
82284-6:	RES' EFI ARDY' S1' CLK	X1 F/C' SRDYEN' S0' RST	X2 ARDYEN' SRDY' PCLK RDY'
8228:	D0 D3 D6 WR' I/OW' MEMR' DB5 DB2 STSTB'	D1 D4 D7 HLDA I/OR' DB7 DB4 DB1 BUSEN'	D2 D5 DBIN INTA' MEMW' DB6 DB3 DB0
8238:	D0 D3 D6 WR' I/OW' MEMR' DB5 DB2 STSTB'	D1 D4 D7 HLDA I/OR' DB7 DB4 DB1 BUSEN'	D2 D5 DBIN INTA' MEMW' DB6 DB3 DB0

Component Pin Sequences

82288:	S0'	S1'	CLK
	CEN/AEN'	CENL	CMDLY
	RDY'	MB	MCE
	ALE	DEN	DT/R'
	MWTC'	MRDC'	IOWC'
	IORC'	INTA'	M/IO'
82288-6:	S0'	S1'	CLK
	CEN/AEN'	CENL	CMDLY
	RDY'	MB	MCE
	ALE	DEN	DT/R'
	MWTC'	MRDC'	IOWC'
	IORC'	INTA'	M/IO'
82285:	RES'	X1	X2
	EFI	F/C'	CSYNC
	PCLK/IN	ARDYEN'	ARDY'
	SRDYEN'	SRDY'	RDY
	RDYO	PCLK	CLK
	RST		
8231A:	CS'	RD'	WR'
	A0	RST	CLK
	EACK'	SVACK'	SVREQ
	END'	DB7	DB6
	DB5	DB4	DB3
	DB2	DB1	DB0
	RDY		

Component Pin Sequences

8237A:	DB0	DB1	DB2
	DB3	DB4	DB5
	DB6	DB7	CLK
	RDY	CS'	RST
	HLDA	DREQ0	DREQ1
	DREQ2	DREQ3	DACK3
	DACK2	DACK1	DACK0
	HRQ	IOW'	IOR'
	MEMW'	MEMR'	ADSTB
	AEN	EOP'	A7
	A6	A5	A4
	A3	A2	A1
	A0		

8237A-4:	DB0	DB1	DB2
	DB3	DB4	DB5
	DB6	DB7	CLK
	RDY	CS'	RST
	HLDA	DREQ0	DREQ1
	DREQ2	DREQ3	DACK3
	DACK2	DACK1	DACK0
	HRQ	IOW'	IOR'
	MEMW'	MEMR'	ADSTB
	AEN	EOP'	A7
	A6	A5	A4
	A3	A2	A1
	A0		

Component Pin Sequences

8237A-5:	DB0	DB1	DB2
	DB3	DB4	DB5
	DB6	DB7	CLK
	RDY	CS'	RST
	HLDA	DREQ0	DREQ1
	DREQ2	DREQ3	DACK3
	DACK2	DACK1	DACK0
	HRQ	IOW'	IOR'
	MEMW'	MEMR'	ADSTB
	AEN	EOP'	A7
	A6	A5	A4
	A3	A2	A1
	A0		

8243:	CS'	PROG	P20
	P21	P22	P23
	P40	P41	P42
	P43	P73	P72
	P71	P70	P63
	P62	P61	P60
	P53	P52	P51
	P50		

82501:	CLSN	CLSN'	RCV
	RCV'	TXD	X1
	X2	C1	C2
	TRMT	TXC'	RXD
	RXC'	CRS'	TRMT'
	CDT'	TEN'	LB/WDTD'

8251A:	RST	CLK	C/D'
	RD'	WR'	CS'
	DSR'	CTS'	RXD
	RXC'	SYNDET	RXRDY
	TXE	TXRDY	TXD
	RTS'	DTR'	D7
	D6	D5	D4
	D3	D2	D1
	DO	TXC'	

Component Pin Sequences

82530:	DB0	DB1	DB2
	DB3	DB4	DB5
	DB6	DB7	CLK
	INTA'	IEI	A/B'
	D/C'	CS'	WR'
	RD'	RXDA	RTXCA'
	TRXCA'	CTSA'	CDA'
	RXDB	RTXCB'	CTSB'
	CDB'	RTSB'	SYNCB'
	TRXCB'	TXDB	RTSA'
	SYNCA'	TXDA	DTRB'
	DTRA'	RDYB'	RDYA'
	IEO	INT'	

82530-6:	DB0	DB1	DB2
	DB3	DB4	DB5
	DB6	DB7	CLK
	INTA'	IEI	A/B'
	D/C'	CS'	WR'
	RD'	RXDA	RTXCA'
	TRXCA'	CTSA'	CDA'
	RXDB	RTXCB'	CTSB'
	CDB'	RTSB'	SYNCB'
	TRXCB'	TXDB	RTSA'
	SYNCA'	TXDA	DTRB'
	DTRA'	RDYB'	RDYA'
	IEO	INT'	

8253:	RD'	WR'	A0
	A1	CS'	CLK0
	GATE0	CLK1	GATE1
	CLK2	GATE2	OUT2
	OUT1	OUT0	D7
	D6	D5	D4
	D3	D2	D1
	D0		

Component Pin Sequences

8253-5:	RD'	WR'	A0
	A1	CS'	CLK0
	GATE0	CLK1	GATE1
	CLK2	GATE2	OUT2
	OUT1	OUT0	D7
	D6	D5	D4
	D3	D2	D1
	DO		

8254:	RD'	WR'	A0
	A1	CS'	CLK0
	GATE0	CLK1	GATE1
	CLK2	GATE2	OUT2
	OUT1	OUT0	D7
	D6	D5	D4
	D3	D2	D1
	DO		

8255A:	DO	D1	D2
	D3	D4	D5
	D6	D7	RD'
	WR'	A1	A0
	RST	CS'	PC7
	PC6	PC5	PC4
	PC3	PC2	PC1
	PC0	PB7	PB6
	PB5	PB4	PB3
	PB2	PB1	PB0
	PA7	PA6	PA5
	PA4	PA3	PA2
	PA1	PA0	

Component Pin Sequences

8255A-5:	D0	D1	D2
	D3	D4	D5
	D6	D7	RD'
	WR'	A1	A0
	RST	CS'	PC7
	PC6	PC5	PC4
	PC3	PC2	PC1
	PC0	PB7	PB6
	PB5	PB4	PB3
	PB2	PB1	PB0
	PA7	PA6	PA5
	PA4	PA3	PA2
	PA1	PA0	
8256AH:	AD0	AD1	AD2
	AD3	AD4	DB5
	DB6	DB7	ALE
	RD'	WR'	RST
	CS'	EXTINT	INTA'
	CLK	CTS'	RXD
	TXD	RXC'	TXC'
	INT	P27	HHP26
	P25	P24	P23
	P22	P21	P20
	P17	P16	P15
	P14	P13	P12
	P11	P10	

Component Pin Sequences

8257:	D0	D1	D2
	D3	D4	D5
	D6	D7	I/OR'
	I/OW'	CLK	RST
	CS'	RDY	DRQ0
	DRQ1	DRQ2	DRQ3
	HLDA	HRQ	DACK3'
	DACK2'	DACK1'	DACK0'
	MARK	TC	ADSTB
	AEN	MEMW'	MEMR'
	A7	A6	A5
	A4	A3	A2
	A1	A0	

8257-5:	D0	D1	D2
	D3	D4	D5
	D6	D7	I/OR'
	I/OW'	CLK	RST
	CS'	RDY	DRQ0
	DRQ1	DRQ2	DRQ3
	HLDA	HRQ	DACK3'
	DACK2'	DACK1'	DACK0'
	MARK	TC	ADSTB
	AEN	MEMW'	MEMR'
	A7	A6	A5
	A4	A3	A2
	A1	A0	

Component Pin Sequences

8044AH:	P0.0	P0.1	P0.2
	P0.3	P0.4	P0.5
	P0.6	P0.7	P1.0
	P1.1	P1.2	P1.3
	P1.4	P1.5	P1.6
	P1.7	RST	XTAL1
	XTAL2	PSEN'	ALE
	EA'	P3.7	P3.6
	P3.5	P3.4	P3.3
	P3.2	P3.1	P3.0
	P2.7	P2.6	P2.5
	P2.4	P2.3	P2.2
	P2.1	P2.0	

8344AH:	P0.0	P0.1	P0.2
	P0.3	P0.4	P0.5
	P0.6	P0.7	P1.0
	P1.1	P1.2	P1.3
	P1.4	P1.5	P1.6
	P1.7	RST	XTAL1
	XTAL2	PSEN'	ALE
	EA'	P3.7	P3.6
	P3.5	P3.4	P3.3
	P3.2	P3.1	P3.0
	P2.7	P2.6	P2.5
	P2.4	P2.3	P2.2
	P2.1	P2.0	

Component Pin Sequences

8744H:	P0.0	P0.1	P0.2
	P0.3	P0.4	P0.5
	P0.6	P0.7	P1.0
	P1.1	P1.2	P1.3
	P1.4	P1.5	P1.6
	P1.7	RST	XTALL
	XTAL2	PSEN'	ALE
	EA'	P3.7	P3.6
	P3.5	P3.4	P3.3
	P3.2	P3.1	P3.0
	P2.7	P2.6	P2.5
	P2.4	P2.3	P2.2
	P2.1	P2.0	

82586:	RST	TXC'	RXD
	RXC'	CTS'	CRS'
	CDT'	CLK	MN/MX'
	AD0	AD1	AD2
	AD3	AD4	AD5
	AD6	AD7	AD8
	AD9	AD10	AD11
	AD12	AD13	AD14
	AD15	HLDA	CA
	RDY	SRY/ARY'	BHE'
	HOLD	S1'	S0'
	A19/S6	A23	A22
	A21	A20	A18
	A17	A16	INT
	RTS'	TXD	

8259A:	IR0	IR1	IR2
	IR3	IR4	IR5
	IR6	IR7	RD'
	WR'	A0	SP/EN'
	INTA'	INT	CAS2
	CAS1	CAS0	D7
	D6	D5	D4
	D3	D2	D1
	DO	CS'	

Component Pin Sequences

8259A-2:	IR0 IR3 IR6 WR' INTA' CAS1 D6 D3 D0	IR1 IR4 IR7 A0 INT CAS0 D5 D2 CS'	IR2 IR5 RD' SP/EN' CAS2 D7 D4 D1
8259A-8:	IR0 IR3 IR6 WR' INTA' CAS1 D6 D3 D0	IR1 IR4 IR7 A0 INT CAS0 D5 D2 CS'	IR2 IR5 RD' SP/EN' CAS2 D7 D4 D1
8271:	4MHZCLK A0 RD' RDY0' CNT/OPI' LOWCUR LDHEAD INSYNC DB7 DB4 DB1 DW' FR/OPO	CS' A1 PLO/SS RDY1' INDEX' DIRECT WRENBLE INT DB6 DB3 DB0 S1 WRPRO'	RST WR' RDDATA' TRK0' FAULT' SEK/STP WRDATA DRQ DB5 DB2 DACK' S0

Component Pin Sequences

8271-6:	4MHZCLK	CS'	RST
	A0	A1	WR'
	RD'	PLO/SS	RDDATA'
	RDY0'	RDY1'	TRK0'
	CNT/OPI'	INDEX'	FAULT'
	LOWCUR	DIRECT	SEK/STP
	LDHEAD	WRENBLE	WRDATA
	INSYNC	INT	DRQ
	DB7	DB6	DB5
	DB4	DB3	DB2
	DB1	DB0	DACK'
	DW'	S1	S0
	FR/OPO	WRPRO'	

82720:	DACK'	DB0	DB1
	DB2	DB3	DB4
	DB5	DB6	DB7
	A0	RD'	WR'
	LPEN	2XWCLK	VSYNC
	BLANK	HSYNC	DBIN'
	RAS'	A17	A16
	AD15	AD14	AD13
	AD12	AD11	AD10
	AD9	AD8	AD7
	AD6	AD5	AD4
	AD3	AD2	AD1
	AD0	DREQ	

Component Pin Sequences

8272A:	TC	RD'	WR'
	A0	RST	DACK'
	WRCLK	CLK	RDDATA
	DW	RDY	WP/TS
	IDX	FLT/TRK0	FR/STP
	LCT/DIR	HDSEL	HDL
	RW/SEEK'	MFM	DS1
	DS0	VCO	PS1
	PS0	WE	WRDATA
	INT	DRQ	DB7
	DB6	DB5	DB4
	DB3	DB2	DB1
	DB0	CS'	
8273:	TXC'	32XCLK'	CTS'
	CD'	RXD	RXC'
	TXDACK'	RXDACK'	RD'
	WR'	A0	A1
	RST	CS'	CLK
	DB7	DB6	DB5
	DB4	DB3	DB2
	DB1	DB0	RXDRQ
	TXDRQ	FLAGDET'	RXINT
	TXINT	RTS'	DPLL'
	TXD	PA2'	PA3'
	PA4'	PB4'	PB3'
	PB2'	PB1'	

Component Pin Sequences

8273-4:	TXC'	32XCLK'	CTS'
	CD'	RXD	RXC'
	TXDACK'	RXDACK'	RD'
	WR'	A0	A1
	RST	CS'	CLK
	DB7	DB6	DB5
	DB4	DB3	DB2
	DB1	DB0	RXDRQ
	TXDRQ	FLAGDET'	RXINT
	TXINT	RTS'	DPLL'
	TXD	PA2'	PA3'
	PA4'	PB4'	PB3'
	PB2'	PB1'	

82731:	CBLANK	CRVV	DW
	HDOT	RRVV	D0
	D1	D2	D3
	D4	D5	D6
	D7	D8	D9
	D10	D11	D12
	D13	D14	D15
	W0	W1	W2
	W3	PROG	CSYN
	WDEF	CHOLD'	T2
	T1	VT	X2
	X1	CCLK	RCLK
	VIDEO	DCLK	

Component Pin Sequences

8274:	TXCA	CDA'	RXDA
	RXCA'	TXCB'	CDB'
	CTSB'	RXCB	RXDB
	WR'	RD'	CS'
	A0	A1	CLK
	RST'	INTA'	RXDRQB
	TXDRQA	TXDRQB	INT'
	DB7	DB6	DB5
	DB4	DB3	DB2
	DB1	DB0	TXDB
	DTRA'	SYNDETA'	SYNDETB'
	RTSA'	TXDA	DTRB'
	CTSA'	RXDRQA	
8275:	DB0	DB1	DB2
	DB3	DB4	DB5
	DB6	DB7	LPEN
	CCLK	CS'	A0
	WR'	RD'	DACK'
	GPA1	GPA0	VSP
	DRQ	IRQ	L滕
	RVV	HLGT	VRTC
	HRTC	LA1	LA0
	LC3	LC2	LC1
	LC0	CC6	CC5
	CC4	CC3	CC2
	CC1	CC0	
8276:	DB0	DB1	DB2
	DB3	DB4	DB5
	DB6	DB7	CCLK
	RD'	WR'	C/P'
	CS'	BS'	BRDY
	INT	GPA1	GPA0
	VSP	L滕	RVV
	HLGT	VRTC	HRTC
	LC3	LC2	LC1
	LC0	CC6	CC5
	CC4	CC3	CC2
	CC1	CC0	

Component Pin Sequences

8279:	RL0	RL1	RL2
	RL3	RL4	RL5
	RL6	RL7	SHIFT
	CNTL/STB	DB0	DB1
	DB2	DB3	DB4
	DB5	DB6	DB7
	RD'	WR'	CS'
	A0	RST	CLK
	IRQ	BD'	OUTB3
	OUTB2	OUTB1	OUTB0
	OUTA3	OUTA2	OUTA1
	OUTA0	SL3	SL2
	SL1	SL0	

8279-5:	RL0	RL1	RL2
	RL3	RL4	RL5
	RL6	RL7	SHIFT
	CNTL/STB	DB0	DB1
	DB2	DB3	DB4
	DB5	DB6	DB7
	RD'	WR'	CS'
	A0	RST	CLK
	IRQ	BD'	OUTB3
	OUTB2	OUTB1	OUTB0
	OUTA3	OUTA2	OUTA1
	OUTA0	SL3	SL2
	SL1	SL0	

8282:	DI0	DI1	DI2
	DI3	DI4	DI5
	DI6	DI7	STB
	OE'	DO7	DO6
	DO5	DO4	DO3
	DO2	DO1	DO0

Component Pin Sequences

8283:	DIO DI3 DI6 OE' DO5' DO2'	DI1 DI4 DI7 DO7' DO4' DO1'	DI2 DI5 STB DO6' DO3' DO0'
8284A:	RES' F/C' RDY1 AEN2' CLK OSC	X1 EFI AEN1' ASYNC' PCLK	X2 CSYNC RDY2 RDY RST
8284A-1:	RES' F/C' RDY1 AEN2' CLK OSC	X1 EFI AEN1' ASYNC' PCLK	X2 CSYNC RDY2 RDY RST
8286:	A0 A3 A6 T B5 B2	A1 A4 A7 B7 B4 B1	A2 A5 OE' B6 B3 B0
8287:	A0 A3 A6 T B5' B2'	A1 A4 A7 B7' B4' B1'	A2 A5 OE' B6' B3' B0'

Component Pin Sequences

8288:	S0'	S1'	S2'
	CLK	AEN'	CEN
	IOB	ALE	MCEPDEN'
	DEN	DT/R'	INTA'
	AIOWC'	IOWC'	IORC'
	AMWC'	MWTC'	MRDC'
8289:	S0'	S1'	S2'
	LOCK'	CLK	CRQLCK'
	RESB	ANYRQST	IOB'
	INIT'	BCLK'	BPRN'
	SYSRESB'	AEN'	BPRO'
	BREQ'	BUSY'	CBRQ'
8289-1:	S0'	S1'	S2'
	LOCK'	CLK	CRQLCK'
	RESB	ANYRQST	IOB'
	INIT'	BCLK'	BPRN'
	SYSRESB'	AEN'	BPRO'
	BREQ'	BUSY'	CBRQ'
8291A:	D0	D1	D2
	D3	D4	D5
	D6	D7	RS0
	RS1	RS2	CS'
	RD'	WR'	ATN'
	IFC'	REN'	CLK
	DACK'	RST	INT
	DREQ	TRIG	SRQ'
	T/R1'	EOI'	NDAC'
	NRFD'	DAV'	DIO8
	DIO7	DIO6	DIO5
	DIO4	DIO3	DIO2
	DIO1	T/R2'	

Component Pin Sequences

8292:	IFCL'	X1	X2
	RST'	CS'	RD'
	A0	WR'	SRQ'
	ATNI'	SYC	CNT
	CIC'	TCI	SPI
	OBFI	IBFI'	DAV'
	REN'	ATNO'	D7
	D6	D5	D4
	D3	D2	D1
	DO	SYNC	CLTH
	IFC'	EOI'	
8293:	BUS1	BUS2	BUS3
	BUS4	BUS5	BUS6
	BUS7	BUS8	BUS9
	T/R1'	T/R2'	OPTA
	OPTB	ATN'	EOI'
	DATA10	DATA9	DATA8
	DATA7	DATA6	DATA5
	DATA4	DATA3	DATA2
	DATA1		
8294A:	DO	D1	D2
	D3	D4	D5
	D6	D7	RD'
	WR'	CS'	A0
	RST'	X1	X2
	DACK'	DRQ	SYNC
	CCMP	OAV	SRQ
	P6	P5	P4
	P3	P2	P1
	PO		

Component Pin Sequences

8295:	D0	D1	D2
	D3	D4	D5
	D6	D7	RD'
	WR'	CS'	DACK/SIN
	RST'	XTALL	XTAL2
	HOME	PFEED	TOF'
	PFM'	MOT'	STB
	SYNC	IRQ/SER'	DRQ/CTS'
	GP2	GP1	S7'
	S6'	S5'	S4'
	S3'	S2'	S1'
8355:	AD0	AD1	AD2
	AD3	AD4	AD5
	AD6	AD7	A8
	A9	A10	CE2
	CE1'	IO/M'	ALE
	RD'	IOW'	RST
	IOR'	CLK	RDY
	PB7	PB6	PB5
	PB4	PB3	PB2
	PB1	PB0	PA7
	PA6	PA5	PA4
	PA3	PA2	PA1
8355-2:	AD0	AD1	AD2
	AD3	AD4	AD5
	AD6	AD7	A8
	A9	A10	CE2
	CE1'	IO/M'	ALE
	RD'	IOW'	RST
	IOR'	CLK	RDY
	PB7	PB6	PB5
	PB4	PB3	PB2
	PB1	PB0	PA7
	PA6	PA5	PA4
	PA3	PA2	PA1
	PA0		

Component Pin Sequences

8755A:	CLK	AD0	AD1
	AD2	AD3	AD4
	AD5	AD6	AD7
	A8	A9	A10
	CE2	ALE	RD'
	IOW'	RST	IOR'
	PB7	PB6	PB5
	PB4	PB3	PB2
	PB1	PB0	PA7
	PA6	PA5	PA4
	PA3	PA2	PA1
	PA0	RDY	IO/M'
	PROGCE1'		

8755A-2:	CLK	AD0	AD1
	AD2	AD3	AD4
	AD5	AD6	AD7
	A8	A9	A10
	CE2	ALE	RD'
	IOW'	RST	IOR'
	PB7	PB6	PB5
	PB4	PB3	PB2
	PB1	PB0	PA7
	PA6	PA5	PA4
	PA3	PA2	PA1
	PA0	RDY	IO/M'
	PROGCE1'		

Component Pin Sequences

80186:	X1	HOLD	TMRIN0
	TMRIN1	SRDY	ARDY
	TEST'	DRQ0	DRQ1
	INT0	INT1	NMI
	AD0	AD1	AD2
	AD3	AD4	AD5
	AD6	AD7	AD8
	AD9	AD10	AD11
	AD12	AD13	AD14
	AD15	IT2/IA0'	IT3/IA1'
	S0'	S1'	S2'
	A16/S3	A17/S4	A18/S5
	A19/S6	BHE/S7'	DT/R'
	LOCK'	DEN'	RD/QSMD'
	WR/QS1'	ALE/QS0	MCS0'
	MCS1'	MCS2'	MCS3'
	UCS'	LCS'	PCS0'
	PCS1'	PCS2'	PCS3'
	PCS4'	PCS5/A1'	PCS6/A2'
	CLKOUT	TMROUT1	TMROUT0
	HLDA	RESET	X2
	RES'		

Component Pin Sequences

80188:	X1	RES'	HOLD
	TMRIN0	TMRIN1	SRDY
	ARDY	TEST'	DRQ0
	DRQ1	INT0	INT1
	NMI	AD0	AD1
	AD2	AD3	AD4
	AD5	AD6	AD7
	IT2/IA0'	IT3/IA1'	A8
	A9	A10	A11
	A12	A13	A14
	A15	A16/S3	A17/S4
	A18/S5	A19/S6	S0'
	S1'	S2'	S7
	DT/R'	LOCK'	DEN'
	RD/QSMD'	WR/QS1'	ALE/QS0'
	MCS0'	MCS1'	MCS2'
	MCS3'	UCS'	LCS
	PCS0'	PCS1'	PCS2'
	PCS3'	PCS4'	PCS5/A1'
	PCS6/A2'	CLKOUT	TMROUT1
	TMROUT0	HLDA	RESET
	X2		

Component Pin Sequences

80286:	NMI	INTR	ERROR'
	BUSY'	CLK	RESET
	HOLD	PEREQ	CAP
	D0	D1	D2
	D3	D4	D5
	D6	D7	D8
	D9	D10	D11
	D12	D13	D14
	D15	A0	A1
	A2	A3	A4
	A5	A6	A7
	A8	A9	A10
	A11	A12	A13
	A14	A15	A16
	A17	A18	A19
	A20	A21	A22
	A23	M/IO'	BHE'
	PEACK'	COD/ITA'	S0'
	S1'	HLDA	LOCK'
	READY'		

Component Pin Sequences

80186T:	X1	HOLD	TMRIN0
	TMRIN1	SRDY	ARDY
	TEST'	DRQ0	DRQ1
	INT0	INT1	NMI
	AD0	AD1	AD2
	AD3	AD4	AD5
	AD6	AD7	AD8
	AD9	AD10	AD11
	AD12	AD13	AD14
	AD15	IT2/IA0'	IT3/IA1'
	S0'	S1'	S2'
	A16/S3	A17/S4	A18/S5
	A19/S6	BHE/S7'	DT/R'
	LOCK'	DEN'	RD/QSMD'
	WR/QS1'	ALE/QS0	MCS0'
	MCS1'	MCS2'	MCS3'
	UCS'	LCS'	PCS0'
	PCS1'	PCS2'	PCS3'
	PCS4'	PCS5/A1'	PCS6/A2'
	CLKOUT	TMROUT1	TMROUT0
	HLDA	RESET	X2
	RES'		

Component Pin Sequences

80188T:	X1	RES'	HOLD
	TMRINO	TMRIN1	SRDY
	ARDY	TEST'	DRQ0
	DRQ1	INT0	INT1
	NMI	AD0	AD1
	AD2	AD3	AD4
	AD5	AD6	AD7
	IT2/IA0'	IT3/IA1'	A8
	A9	A10	A11
	A12	A13	A14
	A15	A16/S3	A17/S4
	A18/S5	A19/S6	S0'
	S1'	S2'	S7
	DT/R'	LOCK'	DEN'
	RD/QSMD'	WR/QS1'	ALE/QS0'
	MCS0'	MCS1'	MCS2'
	MCS3'	UCS'	LCS
	PCS0'	PCS1'	PCS2'
	PCS3'	PCS4'	PCS5/A1'
	PCS6/A2'	CLKOUT	TMROUT1
	TMROUT0	HLDA	RESET
	X2		

Component Pin Sequences

80286T:	NMI	INTR	ERROR'
	BUSY'	CLK	RESET
	HOLD	PREQ	CAP
	D0	D1	D2
	D3	D4	D5
	D6	D7	D8
	D9	D10	D11
	D12	D13	D14
	D15	A0	A1
	A2	A3	A4
	A5	A6	A7
	A8	A9	A10
	A11	A12	A13
	A14	A15	A16
	A17	A18	A19
	A20	A21	A22
	A23	M/IO'	BHE'
	PEACK'	COD/ITA'	S0'
	S1'	HLDA	LOCK'
	READY'		

